

# ONKYO

AV RECEIVER

# TX-NR828

## Instruction Manual

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**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

**CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**Important Safety Instructions**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Damage Requiring Service  
Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - A. When the power-supply cord or plug is damaged,

PORTABLE CART WARNING



S3125A

- B. If liquid has been spilled, or objects have fallen into the apparatus,
- C. If the apparatus has been exposed to rain or water,
- D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
- E. If the apparatus has been dropped or damaged in any way, and
- F. When the apparatus exhibits a distinct change in performance this indicates a need for service.

**16. Object and Liquid Entry**

Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit.

**17. Batteries**

Always consider the environmental issues and follow local regulations when disposing of batteries.

**18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.**

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.



# Precautions

- 1. Recording Copyright**—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
- 2. AC Fuse**—The AC fuse inside the unit is not user-serviceable. If you cannot turn on the unit, contact your Onkyo dealer.
- 3. Care**—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.
- 4. Power**

## WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).

The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times.

For models with [POWER] button, or with both [POWER] and [ON/STANDBY] buttons: Pressing the [POWER] button to select OFF mode does not fully disconnect from the mains. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

For models with [ON/STANDBY] button only: Pressing the [ON/STANDBY] button to select Standby mode does not fully disconnect from the mains. If you do not intend to use the unit for an

extended period, remove the power cord from the AC outlet.

## 5. Preventing Hearing Loss

### Caution

Excessive sound pressure from earphones and headphones can cause hearing loss.

## 6. Batteries and Heat Exposure

### Warning

Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like.

## 7. Never Touch this Unit with Wet Hands

—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.

## 8. Handling Notes

- If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
- Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case.
- This unit's top and rear panels may get warm after prolonged use. This is normal.
- If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.

## For U.S. and Canadian models

### FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful

interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.



## RF Exposure Compliance

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition dans le Supplément C à OET65 et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée. Cependant, cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps (à l'exception des extrémités : mains, poignets, pieds et chevilles).

## For Canadian Models

**NOTE:** THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

For models having a power cord with a polarized plug:

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

## Modèle pour les Canadien

**REMARQUE:** CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

Sur les modèles dont la fiche est polarisée:

**ATTENTION:** POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

## For British models

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

## IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

## IMPORTANT

The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must be approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse.

If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug. Fit a suitable fuse in the plug.

## For European Models

### Declaration of Conformity

We declare, under our sole responsibility, that this product complies with the standards:

- Safety
- Limits and methods of measurement of radio disturbance characteristics
- Limits for harmonic current emissions
- Limitation of voltage changes, voltage fluctuations and flicker
- RoHS Directive, 2011/65/EU
- Hereby, Onkyo Corporation, declares that this TX-NR828 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- С настоящето, Onkyo Corporation, декларира, че TX-NR828 е в съответствие със съществените изисквания и другите приложими разпоредби на Директива 1999/5/EC.
- Onkyo Corporation tímto prohlašuje, že TX-NR828 splňuje základní požadavky a všechna příslušná ustanovení Směrnice 1999/5/ES.
- Undertegnede Onkyo Corporation erklærer herved, at følgende udstyr TX-NR828 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.



- Hiermit erklärt Onkyo Corporation, dass sich das Gerät TX-NR828 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
- Käesolevaga kinnitab Onkyo Corporation seadme TX-NR828 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
- ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ο ΚΑΤΑΣΚΕΥΑΣΤΗΣ Onkyo Corporation ΔΗΛΩΝΕΙ ΟΤΙ ΤΧ-NR828 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK
- Por la presente, Onkyo Corporation, declara que este TX-NR828 cumple con los requisitos esenciales y otras exigencias relevantes de la Directiva 1999/5/EC.
- Par la présente, Onkyo Corporation déclare que l'appareil TX-NR828 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
- Con la presente Onkyo Corporation dichiara che questo TX-NR828 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
- Ar šo Onkyo Corporation deklarē, ka TX-NR828 atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
- Šiuo Onkyo Corporation deklaruoja, kad šis TX-NR828 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktivos nuostatas.
- A Onkyo Corporation ezzennel kijelenti, hogy a TX-NR828 típusú beren-dezés teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
- Hierbij verklaart Onkyo Corporation dat het toestel I TX-NR828 in overeenstemming is met de

- essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
- Niniejszym Onkyo Corporation deklaruje że TX-NR828 jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy 1999/5/EC.
- Eu, Onkyo Corporation, declaro que o TX-NR828 cumpre os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
- Prin prezenta, Onkyo Corporation, declară că aparatul TX-NR828 este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale Directivei 1999/5/CE.
- Onkyo Corporation týmto vyhlasuje, že TX-NR828 a spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
- Onkyo Corporation izjavlja, da je ta TX-NR828 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 1999/5/ES.
- Onkyo Corporation vakuuttaa täten että TX-NR828 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
- Härmed förklarar Onkyo Corporation att denna TX-NR828 följer de väsentliga kraven och andra relevanta stadgar i Direktiv 1999/5/EC.
- Hér með lýsir Onkyo Corporation því yfir að varan TX-NR828 er í samræmi við grunnkröfur og aðrar kröfur sem gerðar eru í tilskipun 1999/5/EC.
- Onkyo Corporation erklærer herved at denne TX-NR828 er i overensstemmelse med væsentlige krav og andre relevante bestemmelser i direktiv 1999/5/EC.

Complies with  
IDA Standards  
DA106032

23764/SDPPI/2012  
2371

TRA  
REGISTERED No  
ER0086260/12  
DEALER No  
527090



Thank you for purchasing an Onkyo AV Receiver. Please read this manual thoroughly before making connections and plugging in the unit. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new AV Receiver. Please retain this manual for future reference.

## Supplied Accessories

Make sure you have the following accessories:

**Indoor FM antenna** (→ [page 22](#))

**AM loop antenna** (→ [page 22](#))

**Power cord** (→ [page 24](#))

**Speaker cable labels** (→ [page 15](#))

**Speaker setup microphone** (→ [page 28](#))

**Remote controller (RC-840M) and two batteries (AA/R6)** (→ [page 13](#))

**Quick Start Guide**

\* In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operations are the same regardless of color.



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To reset the AV receiver, see page [91](#).





# Features

## Amplifier

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- 130 Watts/Channel @ 8 ohms (FTC)
- 180 Watts/Channel @ 6 ohms (IEC)
- 215 Watts/Channel @ 6 ohms (JEITA)
- WRAT—Wide Range Amplifier Technology (5 Hz to 100 kHz bandwidth)
- Optimum Gain Volume Circuitry
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 3 Stage Inverted Darlington Amplifier Design

## Processing

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- THX Select2 Plus Certified
- Incorporates Qdeo™ technology for HDMI Video Upscaling (to 4K Compatible)
- HDMI (Audio Return Channel, 3D, DeepColor, x.v.Color, Lip Sync, 4K (up-scaling and Passthrough), DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus, DSD and Multi-CH PCM)
- Dolby TrueHD and DTS-HD Master Audio
- Dolby Pro Logic IIz and Audyssey DSX®
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Direct Mode
- Pure Audio Mode
- Music Optimizer for Compressed Digital Music files
- Phase Matching Bass System
- 192 kHz/24-bit D/A Converters
- Powerful and Highly Accurate 32-bit Processing DSP
- Jitter Cleaning Circuit Technology

## Connections

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- 8 HDMI Inputs (1 on front panel) and 2 Outputs
- 4K (up-scaling and Passthrough\*)-compatible HDMI Inputs
  - \* Compatible with HDMI IN 1 to HDMI IN 4 only
- Onkyo **RIHD** for System Control
- 5 Digital Inputs (2 Optical/3 Coaxial)
- Component Video Switching (2 Inputs/1 Output)
- Banana Plug-Compatible Speaker Posts
  - \* In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited.
- Powered Zone 2
- Bi-Amping Capability for FL/FR with FHL/FHR
- Internet Radio Connectivity
- Network Capability for Streaming Audio Files
- Wi-Fi (Wireless LAN) Connectivity
- Wireless Music Playback via Bluetooth
- Front-Panel USB Input for Memory Devices
- MHL-Enabled AUX Front Input

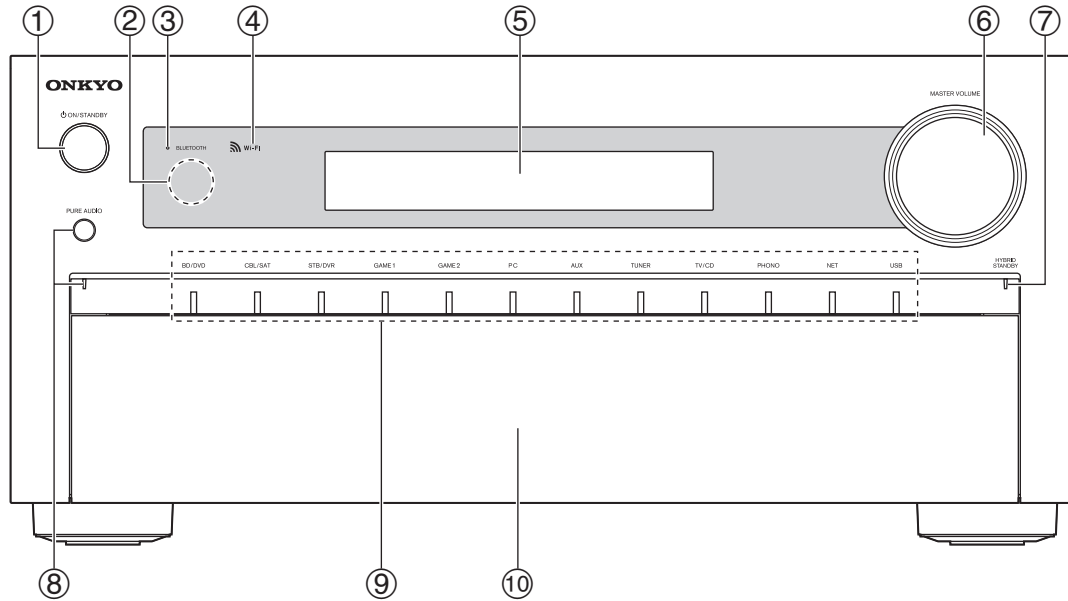
## Miscellaneous

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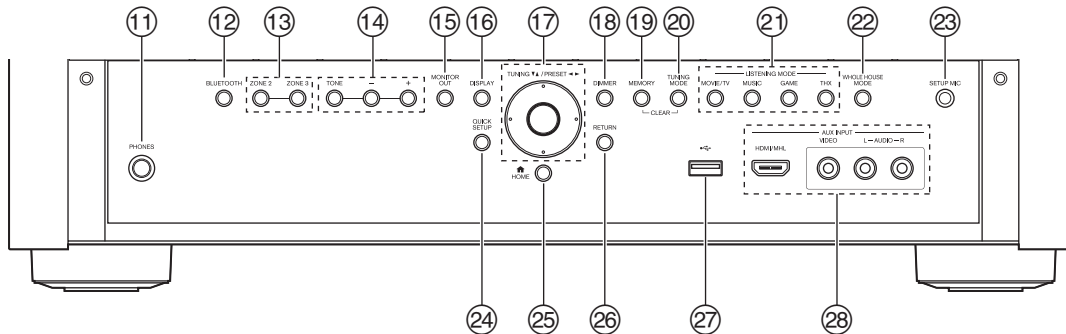
- 40 FM/AM Presets
- Audyssey MultEQ® to correct room acoustic problems
- Audyssey Dynamic EQ® for loudness correction
- Audyssey Dynamic Volume® to maintain optimal listening level and dynamic range
- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (up to 800 ms)
- Auto Standby Function
- On-Screen Display via HDMI
- Preprogrammed (with onscreen display setup) RI-Compatible Learning Remote with 4 Activities and Mode-Key LEDs

# Front & Rear Panels

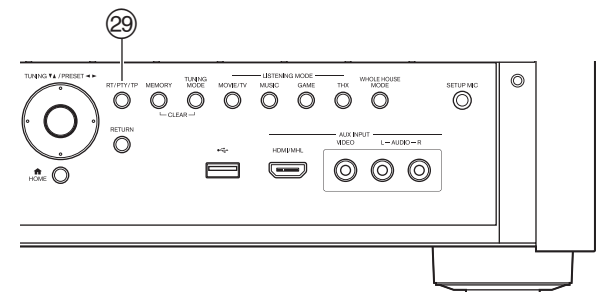
## Front Panel



(North American models)



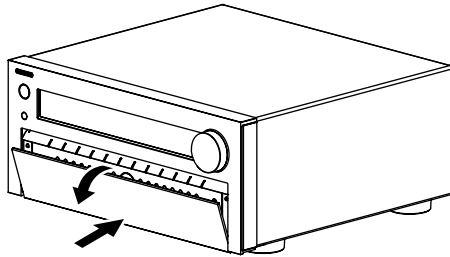
(European and Australian models)





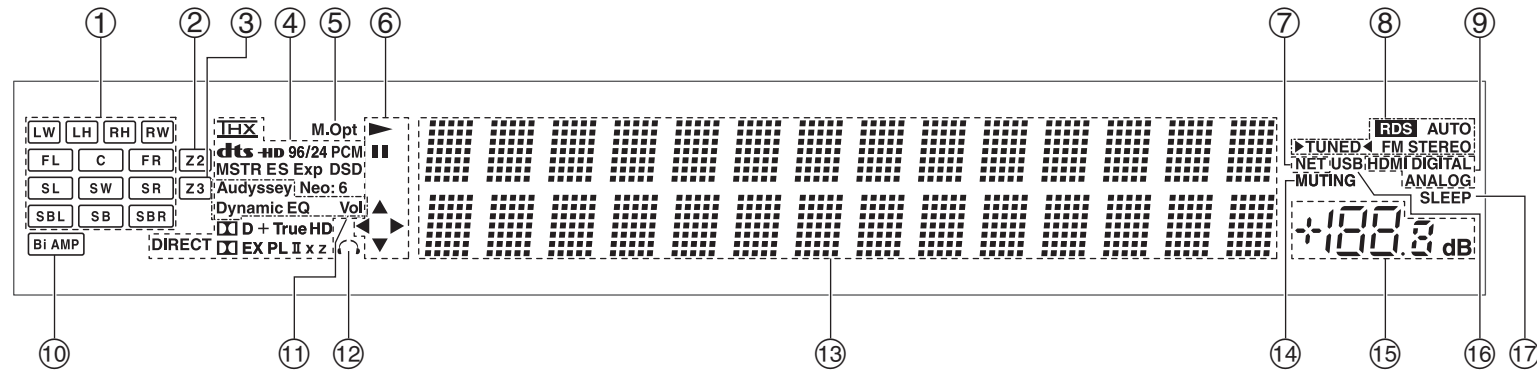
For detailed information, see the pages in parentheses.

- ① **ON/STANDBY button (24)**
- ② **Remote control sensor (13)**
- ③ **BLUETOOTH indicator (34, 78)**
- ④ **Wi-Fi indicator (30)**
- ⑤ **Display (10)**
- ⑥ **MASTER VOLUME control and indicator (32, 52)**
- ⑦ **HYBRID STANDBY indicator (25)**
- ⑧ **PURE AUDIO button and indicator (44)**
- ⑨ **Input selector buttons (32)**
- ⑩ **Front flap**  
Gently push on the lower end of the front panel to open the flap.



- ⑪ **PHONES jack (23)**
- ⑫ **BLUETOOTH button (34, 78)**
- ⑬ **ZONE 2 and ZONE 3 buttons (80)**
- ⑭ **TONE and Tone Level buttons (57)**
- ⑮ **MONITOR OUT button (61)**
- ⑯ **DISPLAY button (52)**
- ⑰ **TUNING ▲/▼ (41), PRESET ◀/▶ (41), cursor and enter (middle) buttons**
- ⑱ **DIMMER button (North American models) (52)**
- ⑲ **MEMORY button (41)**
- ⑳ **TUNING MODE button (41)**
- ㉑ **LISTENING MODE buttons (44)**
- ㉒ **WHOLE HOUSE MODE button (53)**
- ㉓ **SETUP MIC jack (28)**
- ㉔ **QUICK SETUP button (56)**
- ㉕ **HOME button (55)**
- ㉖ **RETURN button**
- ㉗ **USB port (35)**
- ㉘ **AUX INPUT jacks (19)**
- ㉙ **RT/PTY/TP button (European and Australian models) (42)**

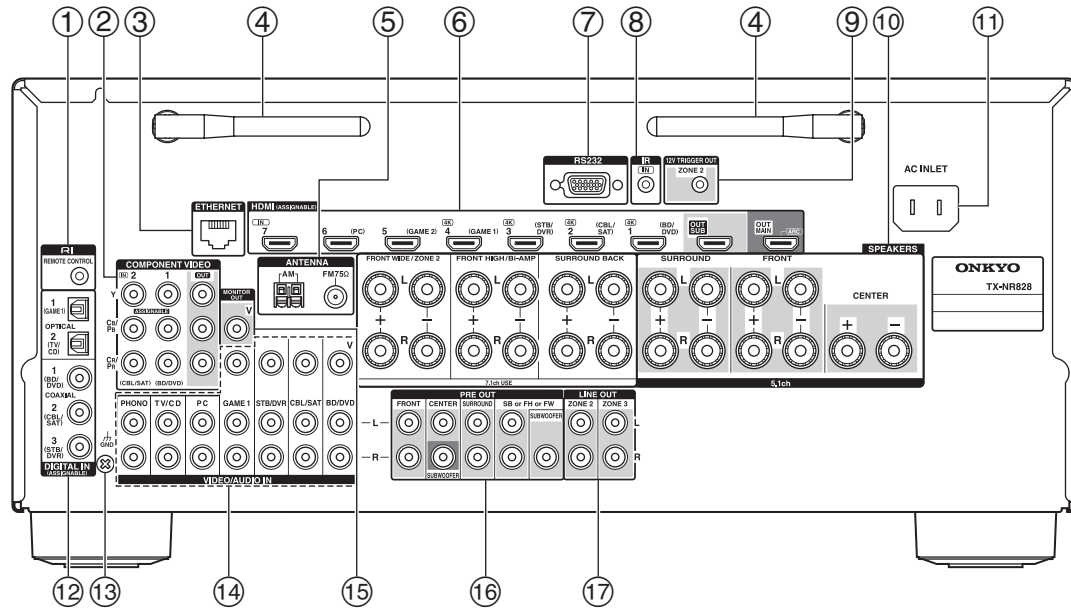
## Display



For detailed information, see the pages in parentheses.

- ① **Speaker/channel indicators**
- ② **Z2 (Zone 2) indicator (80)**
- ③ **Z3 (Zone 3) indicator (80)**
- ④ **Listening mode and format indicators (44, 72)**
- ⑤ **M.Opt (Music Optimizer) indicator (58)**
- ⑥ **►, || and cursor indicators (35)**
- ⑦ **NET indicator (35 to 39, 77)**
- ⑧ **Tuning indicators**
  - RDS indicator (excluding North American models) (42)
  - AUTO indicator (41)
  - TUNED indicator (41)
  - FM STEREO indicator (41)
- ⑨ **Input indicators (21)**
  - HDMI indicator (75)
  - DIGITAL indicator
  - ANALOG indicator
- ⑩ **Bi AMP indicator**
- ⑪ **Audyssey indicator (27, 68)**
  - Dynamic EQ indicator (69)
  - Dynamic Vol indicator (69)
- ⑫ **Headphone indicator (23)**
- ⑬ **Message area**
- ⑭ **MUTING indicator (53)**
- ⑮ **Volume level**
- ⑯ **USB indicator (35)**
- ⑰ **SLEEP indicator (52)**

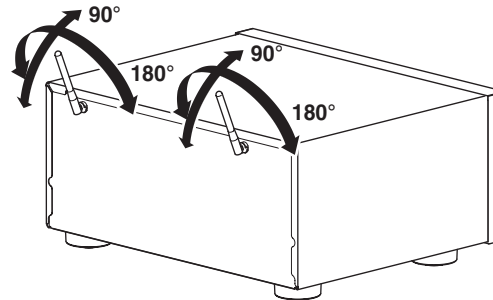
Rear Panel



See "Connecting Your Speakers" for connection (→ pages 14 to 23).

- ① **RM REMOTE CONTROL** jack
- ② **COMPONENT VIDEO IN and OUT** jacks
- ③ **ETHERNET** port

- ④ **Wireless antenna**  
When the AV receiver is connected to the network by wireless, adjust the position of the antenna (→ pages 30, 34).



- ⑤ **FM ANTENNA** jack and **AM ANTENNA** terminal
- ⑥ **HDMI IN** and **HDMI output (HDMI OUT MAIN and HDMI OUT SUB)** jacks
- ⑦ **RS232** port  
Terminal for control.
- ⑧ **IR IN** jack
- ⑨ **ZONE 2 12V TRIGGER OUT** jack
- ⑩ **SPEAKERS** terminals  
(FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, FRONT HIGH/Bi-AMP L/R and FRONT WIDE/ZONE 2 L/R)
- ⑪ **AC INLET**
- ⑫ **DIGITAL IN COAXIAL and OPTICAL** jacks
- ⑬ **GND** screw
- ⑭ **Composite video and analog audio jacks**  
(BD/DVD IN, CBL/SAT IN, STB/DVR IN, GAME 1 IN, PC IN, TV/CD IN, PHONO IN)
- ⑮ **MONITOR OUT V** jack
- ⑯ **PRE OUT** jacks  
(FRONT L/R, CENTER, SURROUND L/R, SB or FH or FW L/R, SUBWOOFER)
- ⑰ **ZONE 2/ZONE 3 LINE OUT** jacks

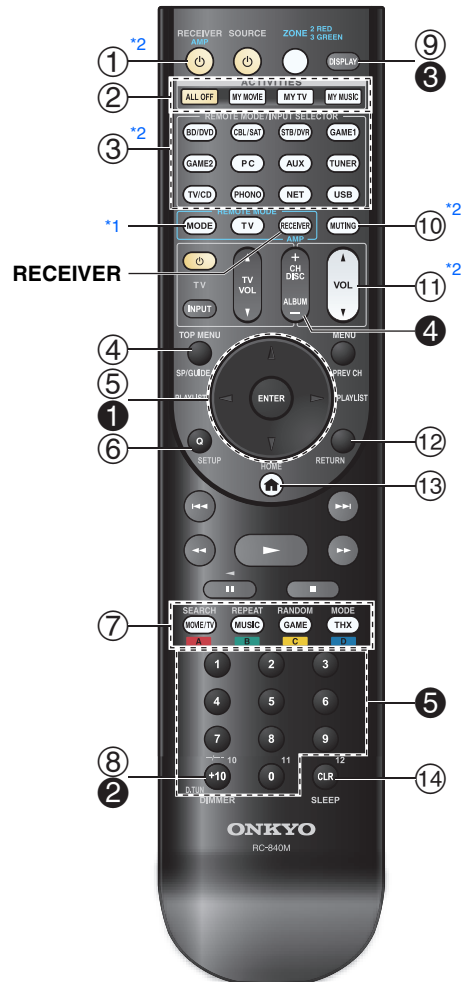
\* SB...Surround Back, FH...Front High, FW...Front Wide



# Remote Controller

## Controlling the AV Receiver

To control the AV receiver, press **RECEIVER** to select Receiver mode.



For detailed information, see the pages in parentheses.

- ① **RECEIVER** button (24)
- ② **ACTIVITIES** buttons (54, 90)
- ③ **REMOTE MODE/INPUT SELECTOR** buttons (32)
- ④ **SP (speaker layout)** button (53)
- ⑤ **▲/▼/◀/▶** and **ENTER** buttons
- ⑥ **Q SETUP** button (56)
- ⑦ **Listening Mode** buttons (44)
- ⑧ **DIMMER** button (52)
- ⑨ **DISPLAY** button (52)
- ⑩ **MUTING** button (53)
- ⑪ **VOL ▲/▼** button (32)
- ⑫ **RETURN** button
- ⑬ **HOME** button (55)
- ⑭ **SLEEP** button (52)

### Tip

- You can also use the remote controller to control Onkyo Blu-ray Disc/DVD player, CD player, and other components. See “Entering Remote Control Codes” for more details (→ page 82).

### ■ Controlling the tuner

To control the AV receiver’s tuner, press **TUNER** (or **RECEIVER**).

You can select AM or FM by pressing **TUNER** repeatedly.

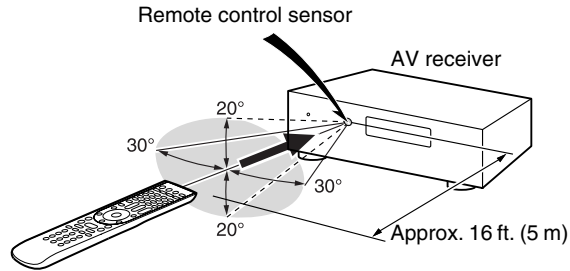
- ❶ **▲/▼** buttons (41)
- ❷ **D.TUN** button (41)
- ❸ **DISPLAY** button
- ❹ **CH +/-** button (42)
- ❺ **Number** buttons (41)

\*1 When you want to change the remote controller mode (target component) without changing the current input source, press **MODE** and within about 8 seconds, press **REMOTE MODE**. Then, using the same AV receiver’s remote controller, you can control the component corresponding to the button you pressed.

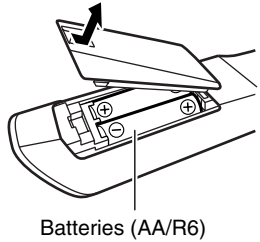
\*2 These buttons can also be used when a **REMOTE MODE** other than Receiver mode is selected.

### ■ Aiming the remote controller

To use the remote controller, point it at the AV receiver's remote control sensor, as shown below.



### ■ Installing the batteries



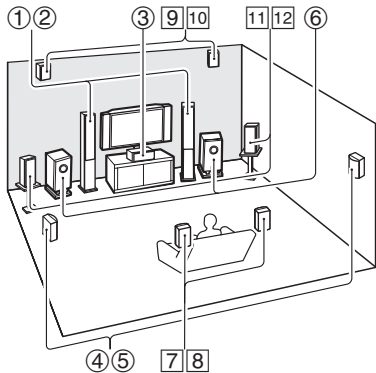
#### Note

- If the remote controller doesn't work reliably, try replacing the batteries.
- Don't mix new and old batteries or different types of batteries.
- If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion.
- Remove expired batteries as soon as possible to prevent damage from leakage or corrosion.

# Connections

## Connecting the AV Receiver

### Connecting Your Speakers



- ① ② Front speakers
- ③ Center speaker
- ④ ⑤ Surround speakers
- ⑥ Subwoofer(s)
- ⑦ ⑧ Surround back speakers
- ⑨ ⑩ Front high speakers
- ⑪ ⑫ Front wide speakers

### Speaker Configuration

The following table indicates the channels you should use depending on the number of speakers that you have.

No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass.

To get the best from your surround sound system, you need to set the speaker settings automatically (→ [page 27](#)) or manually (→ [page 64](#)).

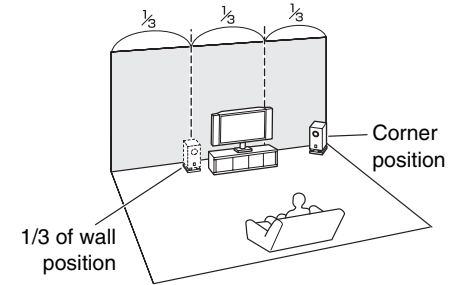
Number of speakers	2	3	4	5	6	7	7	8	8	9	9	10	11
Front speakers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Center speaker		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Surround speakers			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Surround back speaker*1						✓		✓	✓			✓	
Surround back speakers*1							✓			✓	✓		✓
Front high speakers*1							✓	✓		✓	✓	✓	✓
Front wide speakers*1								✓	✓	✓	✓	✓	✓

### Speaker Configuration

- 5.1-channel: ① ② ③ ④ ⑤ ⑥
- 7.1-channel: ① ② ③ ④ ⑤ ⑥ + ⑦ ⑧
- 7.1-channel: ① ② ③ ④ ⑤ ⑥ + ⑨ ⑩
- 7.1-channel: ① ② ③ ④ ⑤ ⑥ + ⑪ ⑫

\*1 Front high, surround back and front wide speakers cannot be used at the same time.

### Using Powered Subwoofers



To find the best position for your subwoofer, while playing a movie or some music with good bass, experiment by placing your subwoofer at various positions within the room, and choose the one that provides the most satisfying results.

You can connect the powered subwoofer with two **SUBWOOFER PRE OUT** jacks respectively. The same signal is output from each jack.

#### Tip

- If your subwoofer is unpowered and you're using an external amplifier, connect the subwoofer pre out jack to an input on the amplifier.



## Attaching the Speaker Cable Labels

The speaker terminals are color-coded for identification purpose.

Speaker	Color
Front left, Front high left, Front wide left, Zone 2 left	White
Front right, Front high right, Front wide right, Zone 2 right	Red
Center	Green
Surround left	Blue
Surround right	Gray
Surround back left	Brown
Surround back right	Tan

The supplied speaker cable labels are also color-coded and you should attach them to the positive (+) side of each speaker cable in accordance with the table above. Then all you need to do is to match the color of each label to the corresponding speaker terminal.

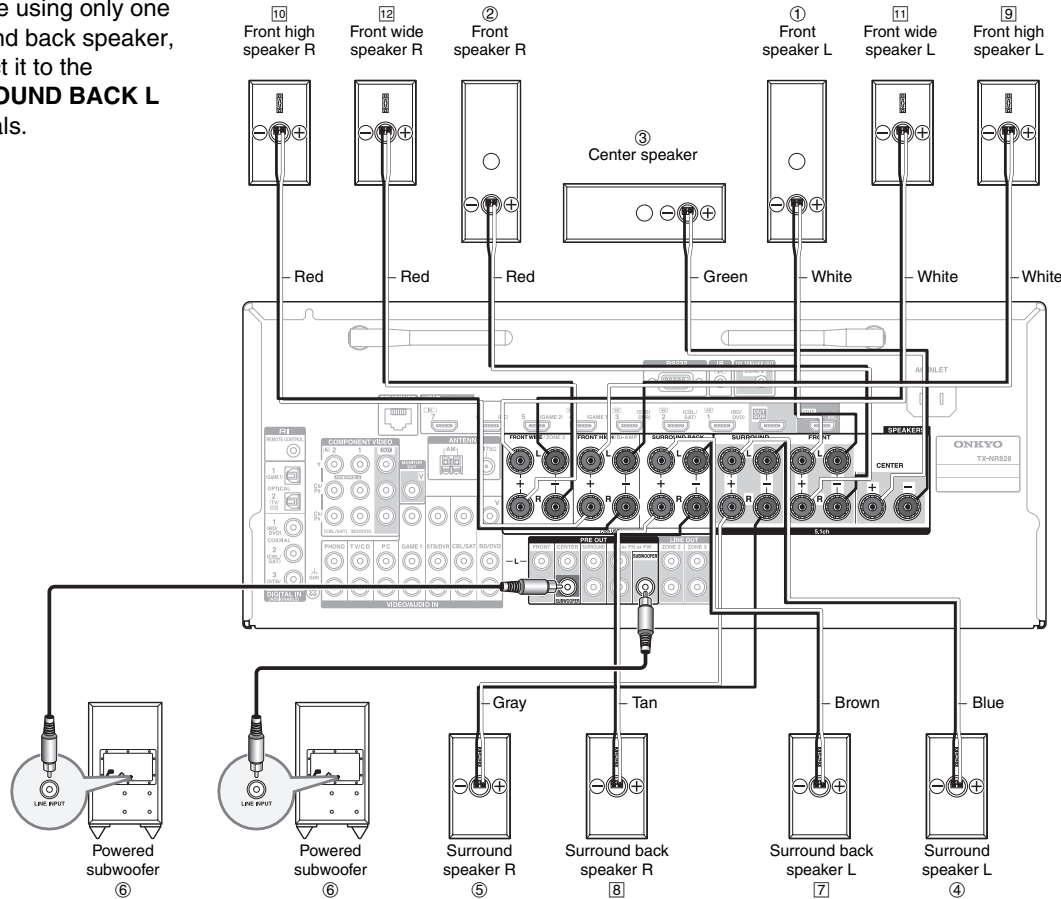




## Connecting the Speaker Cables/Powered Subwoofers

Please connect ①, ②, ③, ④, ⑤ and ⑥ for 5.1-channel surround.

If you're using only one surround back speaker, connect it to the **SURROUND BACK L** terminals.



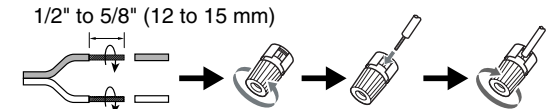
- Pay close attention to speaker wiring polarity. In other words, connect positive (+) terminals only to positive (+) terminals, and negative (–) terminals only to negative (–) terminals. If you get them the wrong way around, the sound will be out of phase and will sound unnatural.

Before connecting the power cord, connect all of your speakers and AV components. A setup wizard is launched upon first-time use to let you perform the settings (→ [page 25](#)).

- Read the instructions supplied with your speakers.
- By default, speakers for 7.1-channel surround are configured to use: front right/front left/center/surround right/surround left/surround back right/surround back left/subwoofer.

### ■ Screw-type speaker terminals

Strip 1/2" to 5/8" (12 to 15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown.



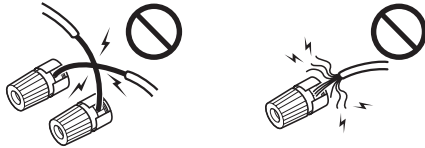
### ■ Banana Plugs (North American models)

- If you are using banana plugs, tighten the speaker terminal before inserting the banana plug.
- Do not insert the speaker code directly into the center hole of the speaker terminal.

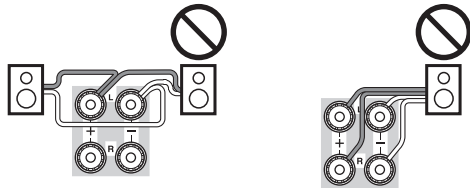
### ■ Speaker Connection Precautions

- You can connect speakers with an impedance of between 4 and 16 ohms. If the impedance of any of the connected speakers is 4 ohms or more, but less than 6 ohms, be sure to set the minimum speaker impedance to "4ohms" (→ [page 63](#)). If you use speakers with a lower impedance, and use the amplifier at high volume levels for a long period of time, the built-in protection circuit may be activated.
- Unnecessarily long, or very thin speaker cables may affect the sound quality and should be avoided.
- Be careful not to short the positive and negative wires. Doing so may damage the AV receiver.

- Make sure the metal core of the wire does not have contact with the AV receiver's rear panel. Doing so may damage the AV receiver.



- Don't connect more than one cable to each speaker terminal. Doing so may damage the AV receiver.
- Don't connect one speaker to several terminals.

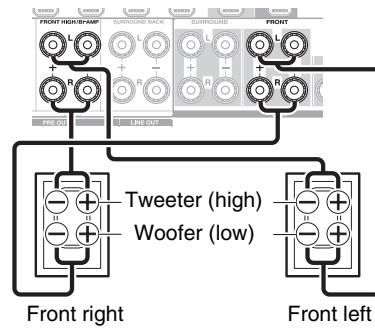


### Bi-amping the Front Speakers

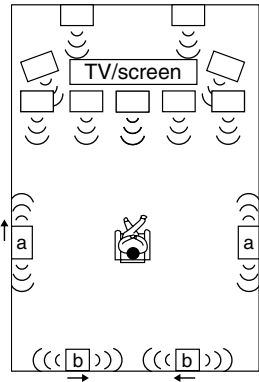
**Important:**

- When making the bi-amping connections, be sure to remove the jumper bars that link the speakers' tweeter (high) and woofer (low) terminals.
- Bi-amping can be used only with speakers that support bi-amping. Refer to your speaker manual.

Bi-amping provides improved bass and treble performance. When bi-amping is used, the AV receiver is able to drive up to a 5.1 speaker system in the main room. Perform bi-amping connections by using **FRONT** terminals and **FRONT HIGH/Bi-AMP** terminals as shown below. Once you've completed the bi-amping connections and turned on the AV receiver, you must set the speaker setting to enable bi-amping (→ [page 64](#)).



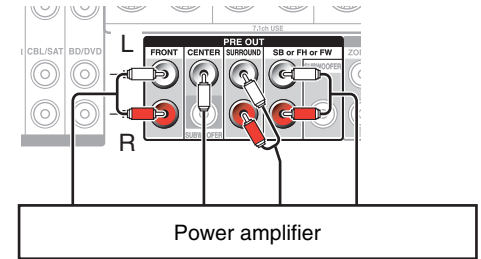
### Using Dipole Speakers



You can use dipole speakers for the surround and surround back speakers. Dipole speakers output the same sound in two directions. Dipole speakers typically have an arrow printed on them to indicate how they should be positioned. The surround dipole speakers (a) should be positioned so that their arrows point toward the TV/screen, while the surround back dipole speakers (b) should be positioned so that their arrows point toward each other, as shown.

### Connecting a Power Amplifier

You can use the AV receiver as a preamp. Connect all speaker outputs to the power amplifier. See the manuals supplied with your amplifier for details.



**SB**...Surround Back, **FH**...Front High, **FW**...Front Wide

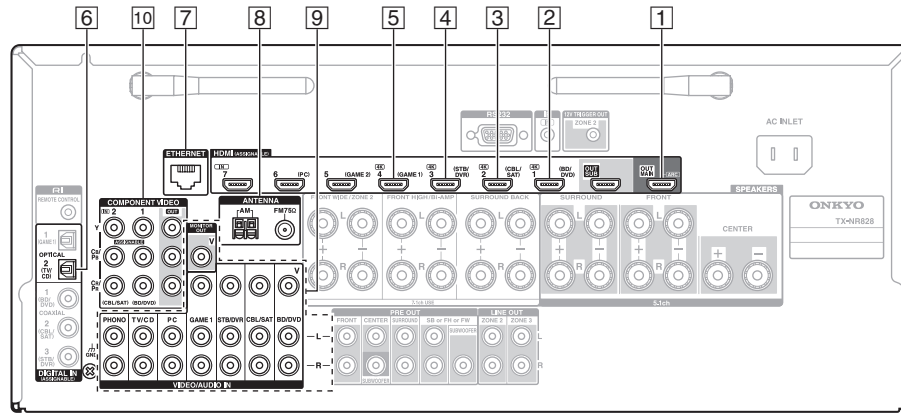
**Note**

- Specify "**None**" for any channel that you don't want to output (→ [page 64](#)).

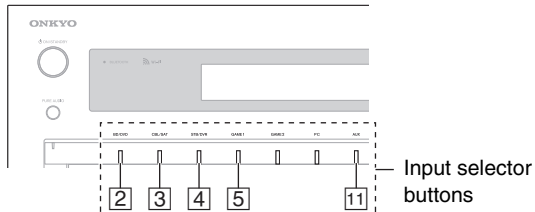


## Connecting the TV/AV components

Before connecting the power cord, connect all of your speakers and AV components. To display the setup menu on the TV screen, connecting the TV to **HDMI OUT MAIN** is required.



If you select the input selector button, the signal from the component connected to the assigned jack is played.



- Before making any AV connections, read the manuals supplied with your AV components.
- Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions).
- To prevent interference, keep audio and video cables away from power cords and speaker cables.

## Connections

- 1 Use this jack to connect to the HDMI input of the TV. If your TV doesn't support Audio Return Channel (ARC)\*1, you need to connect an optical digital cable together with the HDMI cable to jack [6].

Another TV can be connected to the **HDMI OUT SUB** jack.

\*1 ARC is the function that carries the audio signal from the TV to jack [1]. With ARC, a single HDMI cable can connect the TV and the AV receiver.

- 2 Use this jack to connect to your Blu-ray Disc/DVD player, etc.
- 3 Use this jack to connect to the Satellite/cable set-top box, etc.
- 4 Use this jack to connect to the set top box/digital video recorder, etc.

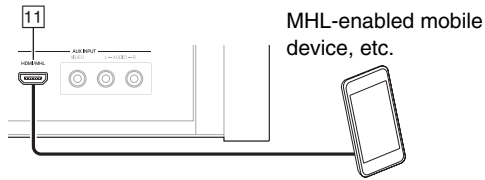
- 5 Use this jack to connect to the game consoles, etc.
- 7 Use this port to connect to a LAN port on a router so the AV receiver can be connected to your home network.
- 8 Use jack and terminal here to connect the supplied FM antenna and AM loop antenna.
- 9 Use this jack to make connections using an analog audio cable.  
With this connection, you can also enjoy analog audio from external components while you are in Zone 2/3.
- 10 Use this jack to make connections using a component video cable.
- 11 Use this jack to connect to the camcorder/MHL-enabled mobile device, etc.

### Tip

- To listen to the audio of a component connected via HDMI through your TV's speakers, enable "**HDMI Through**" (→ page 75) and set the AV receiver to standby mode.
- In the case of Blu-ray Disc/DVD players, if no sound is output despite following the above-mentioned procedure, set your Blu-ray Disc/DVD player's HDMI audio settings to PCM.
- Connect a turntable (MM) that has a built-in phono preamp to **TV/CD IN**, or connect it to **PHONO IN** with the phono preamp turned off. If your turntable (MM) doesn't have a phono preamp, connect it to **PHONO IN**. If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer to connect to **PHONO IN**. See your turntable's manual for details.  
If your turntable has a ground wire, connect it to the AV receiver's **GND** screw. With some turntables, connecting the ground wire may produce an audible hum. If this happens, disconnect it.

### ■ MHL (Mobile High-Definition Link)

With its support for MHL (Mobile High-Definition Link), the AUX (Front) input allows you to deliver high-definition video from a connected mobile device.



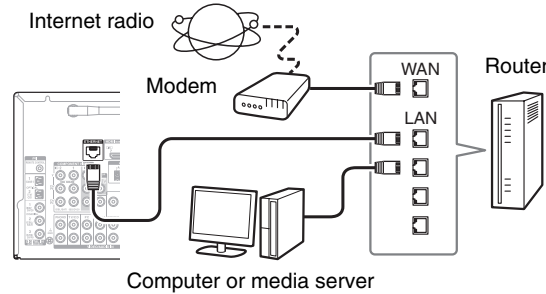
### Connecting to the Network (Optional)

The following diagram shows how you can connect the AV receiver to your home network. In this example, it's connected to a LAN port on a router, which has a 4-port 100Base-TX switch built-in.

The default of the assignment for the input selector buttons and jacks are as shown below. These settings can be changed. (The assignment for the composite video jacks, analog audio jacks, and HDMI Front jack cannot be changed.)

Input selector buttons	HDMI jacks	COMPONENT VIDEO jacks	DIGITAL IN COAXIAL and OPTICAL jacks	Composite video and analog audio jacks
BD/DVD	HDMI IN 1	COMPONENT VIDEO IN 1	DIGITAL IN COAXIAL 1	VIDEO/AUDIO IN BD/DVD
CBL/SAT	HDMI IN 2	COMPONENT VIDEO IN 2	DIGITAL IN COAXIAL 2	VIDEO/AUDIO IN CBL/SAT
STB/DVR	HDMI IN 3		DIGITAL IN COAXIAL 3	VIDEO/AUDIO IN STB/DVR
GAME 1	HDMI IN 4		DIGITAL IN OPTICAL 1	VIDEO/AUDIO IN GAME 1
GAME 2	HDMI IN 5			
PC	HDMI IN 6			AUDIO IN PC
AUX	HDMI Front			VIDEO/AUDIO IN AUX
TV/CD			DIGITAL IN OPTICAL 2	AUDIO IN TV/CD
PHONO				AUDIO IN PHONO

Network connection by wireless LAN is possible. See “Performing Wireless LAN Setup” for connections (→ page 30).



Do not connect the AV receiver's **USB** port to a USB port on your computer. Music on your computer cannot be played through the AV receiver in this way.

### RIHD

The AV receiver allows interoperability of the CEC (Consumer Electronics Control) specified in the HDMI standard, which is known as RIHD. Various linked operations can be performed by connecting the AV receiver to an RIHD-compatible TV, player, or recorder.

Default setting is set to off, so it is required to change the setting to on.

Perform this setting after the initial setup.

### About RIHD-compatible components

The following components are **RIHD**-compatible (As of January 2013).

#### ■ TV

- Sharp TV

#### ■ Players/Recorders

- Onkyo and Integra **RIHD**-compatible players
- Toshiba players and recorders
- Sharp players and recorders (only when used together with Sharp TV)

\* Models other than those mentioned above may have some interoperability if compatible with CEC, which is part of the HDMI Standard, but operation cannot be guaranteed.

#### Note

- For proper linked operations, do not connect more **RIHD**-compatible components than the quantities specified below, to the HDMI input terminal.
  - Blu-ray Disc/DVD players: up to three.
  - Blu-ray Disc/DVD recorders/Digital Video Recorders: up to three.
  - Cable/Satellite Set-top boxes: up to four.
- Do not connect the AV receiver to another AV receiver/AV amplifier via HDMI.
- Proper linked operations are not guaranteed when more **RIHD**-compatible components than the above-mentioned quantities are connected.

## Operations that can be performed with RIHD connection

### ■ For RIHD-compatible TV

The following linked operations are enabled by connecting the AV receiver to an **RIHD**-compatible TV.

- The AV receiver will enter standby mode when the TV is set to standby.
- You can set on the menu screen of the TV to either output the audio from the speakers connected to the AV receiver, or from the speakers of the TV.
- It is possible to output the audio coming from the tuner or auxiliary input of your TV to the speakers of the AV receiver. (A connection such as an optical digital cable or similar is required in addition to the HDMI cable.)
- Input to the AV receiver can be selected with the remote controller of the TV.
- Operations such as volume adjustment or similar for the AV receiver can be performed from the remote controller of the TV.

### ■ For RIHD-compatible players/recorders

The following linked operations are enabled by connecting the AV receiver to an **RIHD**-compatible player/recorder.

- When playback is started on the player/recorder, AV receiver will switch to the HDMI input of the player/recorder that is playing back.
- Operation of the player/recorder is possible using the remote controller supplied with the AV receiver.

\* Depending on the model used, not all operations may be available.

#### Note

- Do not assign an HDMI IN to the TV/CD selector at this time, otherwise appropriate CEC (Consumer Electronics Control) operation will not be guaranteed.

## Confirm the settings

1. Turn on the power for all connected components.
2. Turn off the power of the TV, and confirm that the power of the connected components is turned off automatically with the link operation.
3. Turn on the power of the Blu-ray Disc/DVD player/recorder.
4. Start playback on the Blu-ray Disc/DVD player/recorder, and verify the following:
  - The AV receiver automatically turns on, and selects the input to which the Blu-ray Disc/DVD player/recorder is connected.
  - The TV automatically turns on, and selects the input to which the AV receiver is connected.
5. Following the operating instructions of the TV, select "Use the TV speakers" from the menu screen of the TV, and confirm that the audio is output from the speakers of the TV, and not from the speakers connected to the AV receiver.
6. Select "Use the speakers connected from the AV receiver" from the menu screen of the TV, and confirm that the audio is output from the speakers connected to the AV receiver, and not from the TV speakers.

#### Note

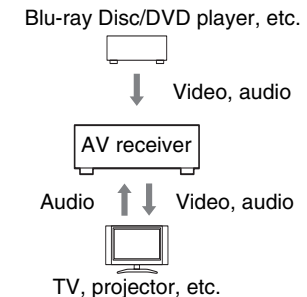
- Audio from DVD-Audio or Super Audio CD may not output from the TV speakers. You will be able to output the audio from the TV speakers by setting the audio output of the DVD player to 2ch PCM. (It may not be possible depending on the player models.)
- Even if you set to output audio on the TV speakers, audio will be output from the speakers connected to the AV receiver when you adjust the volume or switch the input on the AV receiver. To output audio from the TV speakers, redo the corresponding operations on the TV.
- In case of an **RIHD** connection with **RI** and **RI** audio control compatible components, do not connect the **RI** cable at the same time.

- On the TV, when you select anything other than the HDMI jack to which the AV receiver is connected, the input on the AV receiver will be switched to "TV/CD".
- The AV receiver will automatically power on in conjunction when it determines it to be necessary. Even if the AV receiver is connected to an **RIHD** compatible TV or player/recorder, it will not power on if it is not necessary. It may not power on in conjunction when the TV is set to output audio from the TV.
- Linked functions with the AV receiver may not work depending on the component model connected. In such cases, operate the AV receiver directly.

## Connection Tips

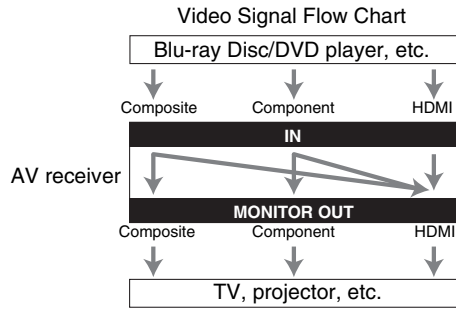
### The video and audio signal flow

Connect the AV receiver between the AV components and the TV. The signal from the AV components is carried through the AV receiver. You can enjoy the audio of the TV through the AV receiver.



Video components can be connected by using any one of the following video connection formats: composite video, component video, or HDMI, the latter offering the best picture quality.

Video input signals flow through the AV receiver as shown, with composite video and component video sources all being upconverted for the HDMI output(s).



The composite video and component video outputs pass through their respective input signals as they are.

**Note**

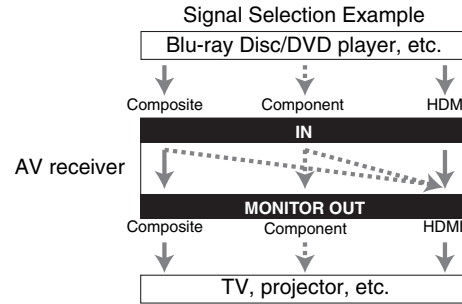
- In order for the AV receiver to upconvert component input to HDMI output, the source output must be set to 480i/576i. When signal is input at resolution of 480p/576p and more, error message will be displayed.

**■ Signal Selection**

If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, component video, composite video.

However, for component video only, regardless of whether a component video signal is actually present, if a component video input is assigned to the input selector, that component video input will be selected. And if no component video input is assigned to the input selector, this will be interpreted as no component video signal being present.

In the Signal Selection Example shown below, video signals are present at both the HDMI and composite video inputs. However, the HDMI signal is automatically selected as the source and the video is output by the HDMI outputs.

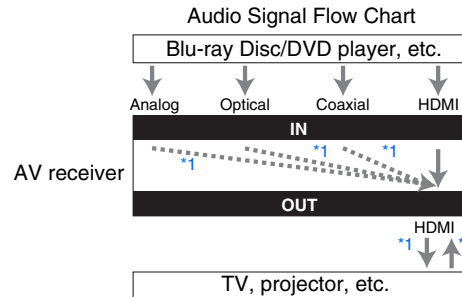


- For optimal video performance, THX recommends that video signals pass through the system without upconversion (e.g., component video input passing through to component video output).
- To by-pass the upconversion, set the “Picture Mode” setting to “Bypass” (→ page 71).

Audio components can be connected by using any of the following audio connection formats: analog, optical, coaxial, or HDMI.

When choosing a connection format, bear in mind that the AV receiver does not convert digital input signals for analog line outputs and vice versa.

If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, digital, analog.



\*1 Depends on the “Audio TV Out (Main)” or “Audio TV Out (Sub)” setting (→ page 75).

\*2 This is possible when “Audio Return Channel” is set to “Auto” (→ page 76), the TV/CD input selector is selected, and your TV is ARC capable.

**Tip**

- When a signal is input via HDMI and the corresponding input selector is selected, the **HDMI** indicator lights. In the case of an optical or coaxial connection, the **DIGITAL** indicator lights. If the analog audio is output, or if neither HDMI nor digital signal inputs are assigned, **ANALOG** indicator lights.

**AV Cables and Jacks**

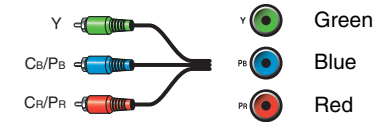
**■ HDMI**

HDMI connections can carry digital video and audio.



**■ Component video**

Component video separates the luminance (Y) and color difference signals (PB, PR), providing the best picture quality (some TV manufacturers label their component video sockets slightly differently).



**■ Composite video**

Composite video is commonly used on TVs, DVDs, and other video equipment.





### Optical digital audio

Optical digital connections allow you to enjoy digital sound such as PCM<sup>\*1</sup>, Dolby Digital or DTS. The audio quality is the same as coaxial.



### Coaxial digital audio

Coaxial digital connections allow you to enjoy digital sound such as PCM<sup>\*1</sup>, Dolby Digital or DTS. The audio quality is the same as optical.



### Analog audio (RCA)

Analog audio connections (RCA) carry analog audio.



\*1 For PCM signals, the supported sampling rates are 32/44.1/48/88.2/96 kHz. With HDMI connections, 176.4 and 192 kHz are also supported.

#### Note

- The AV receiver does not support SCART plugs.
- The AV receiver's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

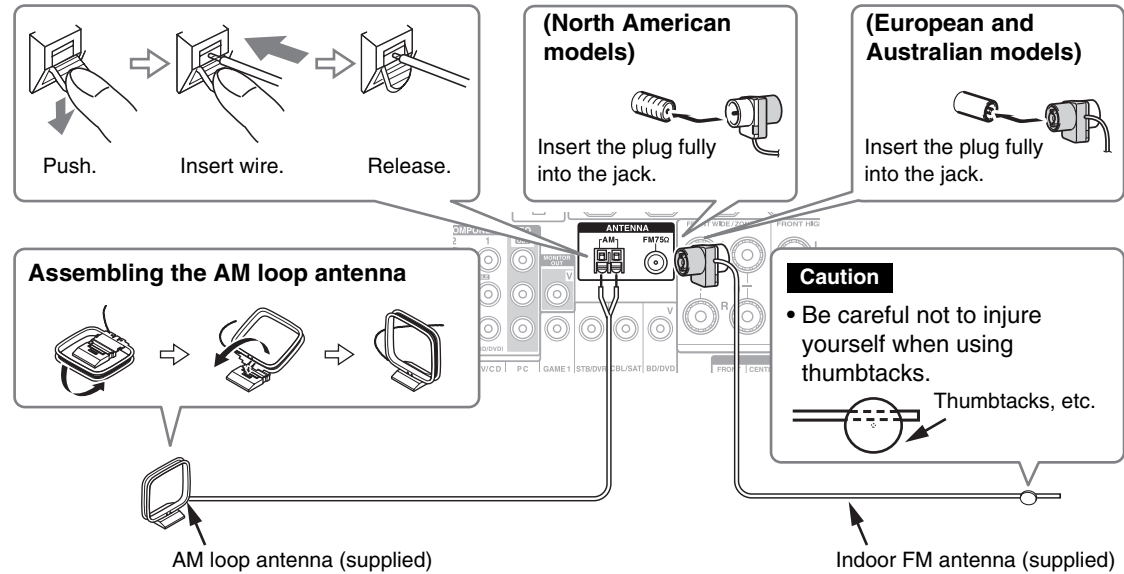
#### Caution

- To prevent shutter damage, hold the optical plug straight when inserting and removing.

## Connecting the Antennas

This section explains how to connect the supplied indoor FM antenna and AM loop antenna.

The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner.



#### Note

- Once your AV receiver is ready for use, you'll need to tune into a radio station and position the antenna to achieve the best possible reception.
- Keep the AM loop antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords.

#### Tip

- If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead.
- If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna.



## Connecting Onkyo RI Components

- 1 Make sure that each Onkyo component is connected with an analog audio cable (connection 9 in the hookup examples) (→ page 18).
- 2 Make the **RI** connection (see the illustration).
- 3 If you're using an **RI Dock**, or cassette tape deck, change the Input Display (→ page 53).

With **RI** (Remote Interactive), you can use the following special functions:

### ■ System On/Auto Power On

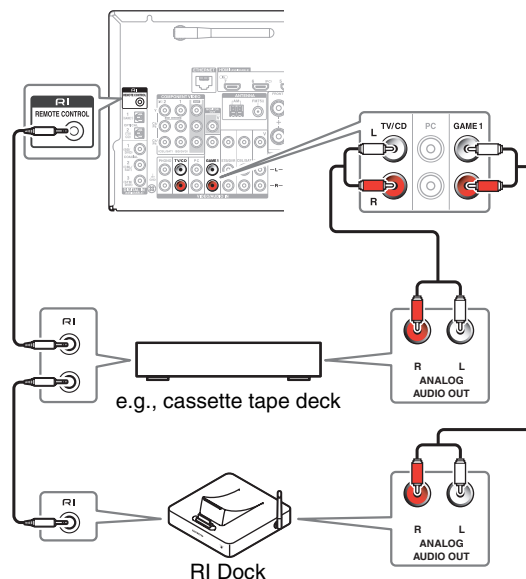
When you start playback on a component connected via **RI**, while the AV receiver is on standby, the AV receiver will automatically turn on and select that component as the input source.

### ■ Direct Change

When playback is started on a component connected via **RI**, the AV receiver automatically selects that component as the input source.

### ■ Remote Control

You can use the AV receiver's remote controller to control your other **RI**-capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component. You must enter the appropriate remote control code first (→ page 83).



### Note

- Use only **RI** cables for **RI** connections. **RI** cables are supplied with Onkyo components.
- Some components have two **RI** jacks. You can connect either one to the AV receiver. The other jack is for connecting additional **RI**-capable components.
- Connect only Onkyo components to **RI** jacks. Connecting other manufacturer's components may cause a malfunction.
- Some components may not support all **RI** functions. Refer to the manuals supplied with your Onkyo components.
- While Zone 2/3 is on, the System On/Auto Power On and Direct Change **RI** functions do not work.

## Using Headphones

- 1 Connect a pair of stereo headphones with a standard plug (1/4 inch or ø 6.3 mm) to the **PHONES** jack.

While the headphones plug is inserted in the **PHONES** jack, the indicator, speaker/channel indicator **FL** and **FR** lights.

### Note

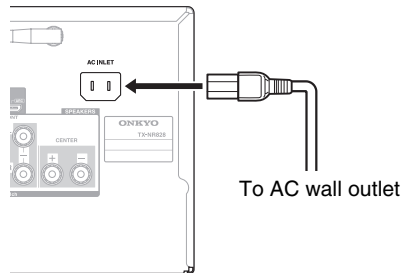
- Always turn down the volume before connecting your headphones.
- While the headphones plug is inserted in the **PHONES** jack, the speakers are turned off. (The Zone 2/3 speakers are not turned off.)
- When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Stereo, Mono, Direct, or Pure Audio.

# Turning On & Basic Operations

## Turning On/Off the AV Receiver

### Connecting the Power Cord

- 1 Connect the supplied power cord to the AV receiver's AC INLET.



- 2 Plug the power cord into an AC wall outlet.

#### Note

- Before connecting the power cord, connect all of your speakers and AV components.
- Turning on the AV receiver may cause a momentary power surge that might interfere with other electrical equipment on

the same circuit. If this is a problem, plug the AV receiver into a different branch circuit.

- Do not use a power cord other than the one supplied with the AV receiver. The supplied power cord is designed exclusively for use with the AV receiver and should not be used with any other equipment.
- Never disconnect the power cord from the AV receiver while the other end is still plugged into a wall outlet. Doing so may cause an electric shock. Always disconnect the power cord from the wall outlet first, and then the AV receiver.

### Turning On

- 1 Press **ON/STANDBY** on the front panel.  
or

**Press RECEIVER followed by RECEIVER on the remote controller.**

The AV receiver comes on and its display lights.

#### Smooth Operation in a Few Easy Steps (Initial Setup)

To ensure smooth operation, here's a few easy steps to help you configure the AV receiver before you use it for the very first time. These settings only need to be made once. See "Initial Setup" for details ([→ page 25](#)).

### Turning Off

- 1 Press **ON/STANDBY** on the front panel.  
or

**Press RECEIVER followed by RECEIVER on the remote controller.**

The AV receiver will enter standby mode. To prevent any loud surprises when you turn on the AV receiver, always turn down the volume before you turn it off.

#### Tip

- The **HYBRID STANDBY** indicator may light depending on the status of settings ([→ page 25](#)).
- For details on power management settings, see "Auto Standby" ([→ page 76](#)).
- If the HDMI Through setting is not set in standby mode, an MHL-enabled mobile device cannot be charged even if it is connected.

## Firmware Update Notification

When a new version of the firmware is available, the notification window “**Firmware Update Available**” pops up. This notification only appears when the AV receiver is connected to the Internet (→ [pages 19, 30](#)). To perform the firmware update, follow the instructions on screen.

Use **▲/▼** and **ENTER** on the AV receiver or remote controller to select one of the options.

### ► Update Now:

Starts the firmware update.  
Refer to “Firmware Update” (→ [page 99](#)).

### ► Remind me Later:

The update notification will pop up again the next time you turn the AV receiver on.

### ► Never Remind me:

Disables the automatic update notification.

### Tip

- The update notification window can be enabled or disabled in “**Update Notice**” (→ [page 77](#)).

## About the HYBRID STANDBY indicator

By way of optimized circuitry, this function reduces power consumption when the AV receiver is in standby mode. The **HYBRID STANDBY** indicator will light in either of the following conditions:

- “**HDMI Through**” is enabled (the **HDMI** indicator is off).
- “**Network Standby**” is enabled (the **NET** indicator is off).

### Note

- If Zones are turned on or, if a mobile device connected to the Front Input (MHL) is charging, the **HYBRID STANDBY** indicator won't light.

## Initial Setup

This section explains the settings that we recommend you to make before using the AV receiver for the very first time. A setup wizard is launched upon first-time use to let you perform those settings.

### Tip

- The on-screen menus appear only on a TV that is connected to **HDMI OUT MAIN**.

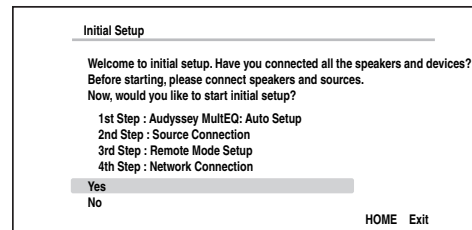
## Selecting the Language for the On-screen Setup Menus

This step determines the language used for the on-screen setup menus. See “**Language**” in “**OSD Setup**” (→ [page 74](#)).

### Tip

- Pressing **HOME** will close the setup wizard. To restart the initial setup, select “**Initial Setup**” in the “**Hardware Setup**” menu (→ [page 78](#)).

After selecting the language for on-screen setup menus, a welcome screen is displayed.



- 1 Use **▲/▼** on the AV receiver or remote controller to select one of the following options, and then press **ENTER**.

### ► Yes:

Continues to “**Audyssey MultEQ: Auto Setup**”.

### ► No:

Skips the settings and terminates the initial setup. The setup wizard goes to “Terminating the Initial Setup” (→ [page 26](#)).

You can always restart the initial setup by selecting “**Initial Setup**” in the “**Hardware Setup**” menu (→ [page 78](#)).

## Audyssey MultEQ: Auto Setup

This step performs the automatic speaker setup.

- 1 Use **▲/▼** to select one of the following options, and then press **ENTER**.

### ► Do it Now:

The automatic speaker setup is performed following instructions on screen. Refer to step 2 of “Using the Automatic Speaker Setup” (→ [page 27](#)). When this setting is complete, the setup wizard continues to “**Source Connection**”.

### ► Do it Later:

Skips this setting.  
Press **ENTER** and continue to “**Source Connection**”.

## Source Connection

This step checks the connection of source components.

- 1 Use ▲/▼ to select one of the following options, and then press ENTER.**
  - ▶ **Yes, Continue:**  
Performs the checkings.
  - ▶ **No, Skip:**  
Skips this step and continues to “Remote Mode Setup”.
- 2 Select the input selector for which you want to check the connection and press ENTER.**  
The picture and sound of the corresponding source should appear on screen with a verification prompt.
- 3 When prompted, use ▲/▼ to select one of the following options and then press ENTER.**
  - ▶ **Yes:**  
Confirms that the source is properly displayed.
  - ▶ **No:**  
Displays an error report. Follow the troubleshooting instructions and recheck the source.
- 4 Use ▲/▼ to select one of the following options, and then press ENTER.**
  - ▶ **Yes:**  
Returns to step 2.
  - ▶ **No, Done Checking:**  
The setup wizard continues to “Remote Mode Setup”.

## Remote Mode Setup

With this step, you can enter remote control codes for the components you want to operate.

- 1 Use ▲/▼ to select one of the following options, and then press ENTER.**
  - ▶ **Yes:**  
Performs the remote control code input. Refer to step 5 of “Looking up for Remote Control Codes” (→ [page 82](#)).
  - ▶ **No, Skip:**  
Skips this step and continues to “Network Connection”.
- 2 When you’re finished, select one of the following options and press ENTER.**
  - ▶ **Yes, Done:**  
The setup wizard continues to “Network Connection”.
  - ▶ **No, not yet:**  
You can enter other remote control codes.

## Network Connection

This step checks your network connection.

- 1 Use ▲/▼ to select one of the following options, and then press ENTER.**
  - ▶ **Yes:**  
Performs the checkings.
  - ▶ **No, Skip:**  
Skips this step and terminates the initial setup.

- 2 Follow the instructions on screen to perform the network checking.**

The checking is complete when the message “**Successfully connected.**” appears at the middle of the screen. Press **ENTER** to terminate the initial setup.

### Tip

- If you have selected “**Wireless**”, you need to perform the wireless LAN setup. See “Performing Wireless LAN Setup” (→ [page 30](#)). This completes the initial setup.

- 3 If an error message appears, select one of the following options and press ENTER.**

- ▶ **Retry:**  
Performs the checking again.
- ▶ **No, Do it Later:**  
Skips this step and terminates the initial setup. The setup wizard goes to “Terminating the Initial Setup”.

## Terminating the Initial Setup

This step ends the initial setup process.

- 1 Press ENTER.**  
To restart the initial setup, select “**Initial Setup**” in the “**Hardware Setup**” menu (→ [page 78](#)).



## Using the Automatic Speaker Setup

With the supplied calibrated microphone, Audyssey MultEQ® automatically determines the number of speakers connected, their size for purposes of bass management, optimum crossover frequencies to the subwoofer (if present), and distances from the primary listening position. Audyssey MultEQ then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone. Audyssey MultEQ can be used with Audyssey Dynamic EQ® and Audyssey Dynamic Volume® (→ [page 69](#)). Before using this function, connect and position all of your speakers.

Audyssey MultEQ offers two ways of measuring: the “**Audyssey Quick Start**” and “**Audyssey MultEQ Full Calibration**”.

- “**Audyssey Quick Start**” uses the measurement from one position to perform the speaker setting only.
- “**Audyssey MultEQ Full Calibration**” uses the measurement from six positions to correct room response in addition to the speaker setting.

The more positions are used in measuring, the better the listening environment will become. We recommend using a measurement from six positions to create the best listening environment.

The Quick Start takes 2 minutes and Full Calibration takes about 20 minutes.

Total measurement time varies depending on the number of speakers.

## Measurement procedure

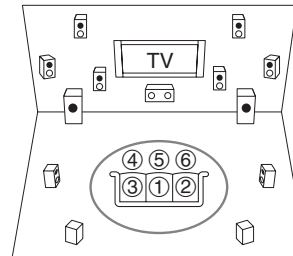
To create a listening environment in your home theater that all listeners will enjoy, Audyssey MultEQ takes measurements at up to six positions within the listening area. Position the microphone at ear height of a seated listener with the microphone tip pointed directly at the ceiling using a tripod. Do not hold the microphone in your hand during measurements as this will produce inaccurate results.

### ■ First measurement position

Also referred to as the Main Listening Position, this refers to the most central position where one would normally sit within the listening environment. Audyssey MultEQ uses the measurements from this position to calculate speaker distance, level, and the optimum crossover value for the subwoofer.

### ■ Second-sixth measurement positions

These are the other listening positions (i.e., the places where the other listeners will sit). You can measure up to six positions.



○ : Listening area      ① to ⑥: Listening position

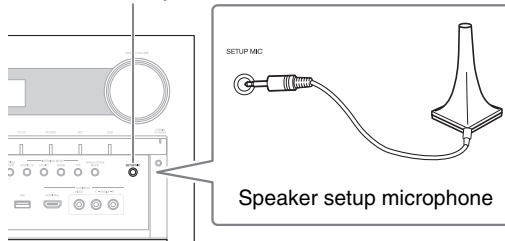
### Note

- Make the room as quiet as possible. Background noise and Radio Frequency Interference (RFI) can disrupt the room measurements. Close windows, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices. Turn off the cell phone (even if it is not in use) or place it away from all audio electronics.
- The microphone picks up test tones played through each speaker as Audyssey MultEQ Room Correction and Speaker Setup runs.
- Audyssey MultEQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected.

**1 Turn on the AV receiver and the connected TV.**  
On the TV, select the input to which the AV receiver is connected.

**2 Set the speaker setup microphone at the Main Listening Position ①, and connect it to the SETUP MIC jack.**

#### SETUP MIC jack

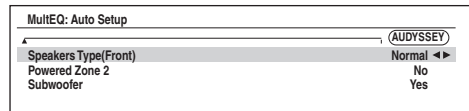


The speaker setting menu appears.

#### Note

- The on-screen menus appear only on a TV that is connected to **HDMI OUT MAIN**. If your TV is connected to other video outputs, use the AV receiver's display when changing settings.

**3 When you've finished making the settings, press ENTER.**



Perform the "2. Speaker Setup" according to your speaker configuration:

- **Speakers Type(Front)** (→ page 64)
- **Powered Zone 2** (→ page 64)
- **Subwoofer** (→ page 64)

If you use a powered subwoofer(s), go to step 4. If not, go to step 5.

**4 Adjust the subwoofer volume level to 75 dB, and then press ENTER.**

Test tones are played through the subwoofer. Use the volume control on the subwoofer.

#### Note

- If your subwoofer does not have a volume control, disregard the displayed level and press **ENTER** to proceed to the next step.
- If you set the subwoofer's volume control to its maximum and the level displayed is lower than 75 dB, leave the subwoofer's volume control at its maximum and press **ENTER** to proceed to the next step.

**5 Use ▲/▼ to select "Audyssey Quick Start" or "Audyssey MultEQ Full Calibration", and then press ENTER.**

**6 Press ENTER.**

Audyssey MultEQ® Room Correction and Speaker Setup starts.

Test tones are played through each speaker as Audyssey MultEQ Room Correction and Speaker Setup runs. This process takes a few minutes. Please **refrain from talking** during measurements and **do not stand** between speakers and the microphone.

Do not disconnect the speaker setup microphone during Audyssey MultEQ Room Correction and Speaker Setup, unless you want to cancel the setup.

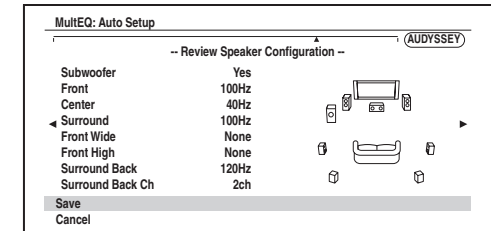
If you select "**Audyssey Quick Start**", you will go to step 9.

**7 Place the speaker setup microphone at the next position, and then press ENTER.**

Audyssey MultEQ performs more measurements. This takes a few minutes.

**8 When prompted, repeat step 7.**

**9 Use ▲/▼ to select an option, and then press ENTER.**



The options are:

#### ► Save:

Save the calculated settings and exit Audyssey MultEQ Room Correction and Speaker Setup.

#### ► Cancel:

Cancel Audyssey MultEQ Room Correction and Speaker Setup.

#### Tip

- You can view the calculated settings for the speaker configuration, speaker distances, and speaker levels by using ◀/▶.

**10 Use ▲/▼ to select a target, and use ◀/▶ to change the setting.**

After the results of Audyssey MultEQ have been saved, the menu will display the "Audyssey" (→ page 68), "Dynamic EQ" (→ page 69), "Dynamic Volume" (→ page 69) settings.

#### Note

- When "**Audyssey Quick Start**" has been used for measurement, "**Audyssey**" cannot be selected.
- These settings are applied to all input selectors.

**11 Press ENTER.**

**12 Disconnect the speaker setup microphone.**

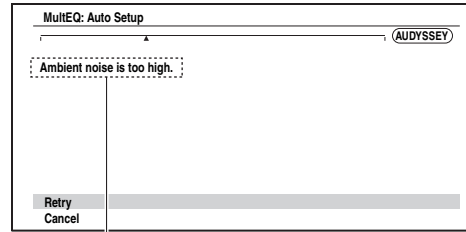


**Note**

- You can cancel Audyssey MultEQ® Room Correction and Speaker Setup at any point in this procedure simply by disconnecting the setup microphone.
- Do not connect or disconnect any speakers during Audyssey MultEQ Room Correction and Speaker Setup.
- If the AV receiver is muted, it will be unmuted automatically when Audyssey MultEQ Room Correction and Speaker Setup starts.
- Changes to the room after Audyssey MultEQ Room Correction and Speaker Setup requires you run Audyssey MultEQ Room Correction and Speaker Setup again, as room EQ characteristics may have changed.

**Error Messages**

While Audyssey MultEQ Room Correction and Speaker Setup is in progress, one of the error messages below may appear.



Error message

The options are:

▶ **Retry:**

Try again.

▶ **Cancel:**

Cancel Audyssey MultEQ Room Correction and Speaker Setup.

• **Ambient noise is too high.**

The background noise is too loud. Remove the source of the noise and try again.

• **Speaker Matching Error!**

The number of speakers detected was different from that of the first measurement. Check the speaker connection.

• **Writing Error!**

This message appears if saving fails. Try saving again. If this message appears after 2 or 3 attempts, contact your Onkyo dealer.

• **Speaker Detect Error**

This message appears if a speaker is not detected. “No” means that no speaker was detected.

**Tip**

- See “Speaker Configuration” for appropriate settings (→ [page 14](#)).

The setup of the speaker can be done manually (→ [page 64](#)).

The setup of the volume level of each speaker also can be done manually (→ [page 65](#)).

**Note**

- Please note that THX recommends any THX main speakers be set to “80Hz(THX)”. If you set up your speakers using Audyssey MultEQ Room Correction and Speaker Setup, please make sure manually that any THX speakers are set to “80Hz(THX)” crossover (→ [page 64](#)).
- Sometimes due to the electrical complexities of subwoofers and the interaction with the room, THX recommends setting the level and the distance of the subwoofer manually.
- Sometimes due to interaction with the room, you may notice irregular results when setting the level and/or distance of the main speakers. If this happens, THX recommends setting them manually.

**Using a Powered Subwoofer**

If you’re using a powered subwoofer and it outputs very low-frequency sound at a low volume level, it may not be detected by Audyssey MultEQ Room Correction and Speaker Setup.

If the “**Subwoofer**” appears on the “**Review Speaker Configuration**” screen as “**No**”, increase the subwoofer’s volume to the half-way point, set it to its highest crossover frequency, and then try running Audyssey MultEQ Room Correction and Speaker Setup again. Note that if the volume is set too high and the sound distorts, detection issues may occur, so use an appropriate volume level. If the subwoofer has a low-pass filter switch, set it to Off or Direct. Refer to your subwoofer’s instruction manual for details.





## Performing Wireless LAN Setup

A wireless LAN (WLAN) is a local area network that relies on wireless communication.

To achieve a wireless network connection, you will need the following component:

### ■ Access point

Also known as the base station, it links your AV receiver (wireless client) with a PC or network.

Access points fall into two categories: the bridge type that only performs data relay in a local area network, or the router type that has a built-in router functionality.

To achieve a wireless network connection, it is necessary to perform the wireless LAN setup. The setup can be done either automatically or manually. You use your AV receiver as a wireless client (wireless terminal) and connect it to a PC or to the Internet.

### Automatic wireless LAN setup

- 1 Press RECEIVER followed by HOME.
- 2 Use </> or ▲/▼ to select “Setup”, and then press ENTER.
- 3 Use ▲/▼ to select “Hardware Setup”, and then press ENTER.
- 4 Use ▲/▼ to select “Network”, and then press ENTER.

- 5 Use ▲/▼ to select “Network Connection”, and </> to select “Wireless”, and then press ENTER (→ page 77).

The “Wireless Setup” menu is displayed on screen.

#### Tip

- The same setting is available even if “Wireless” is selected in “Network Connection” in initial setup (→ page 26).

- 6 Press ▲/▼ to select (North American models) “Push Button Configuration (Other Routers)”<sup>\*1</sup>(excluding North American models) “Push Button Configuration (Select from Router)”, and press ENTER.

The method to make settings by “Push Button Configuration” is displayed, providing the following two options:

#### Tip

- \*1 (North American models) To connect to Linksys E/EA Router, select “Push Button Configuration (Linksys E/EA Router)” and make settings following the instructions on the screen.

### ■ Push Button method

1. Use ▲/▼ to select “Push Button” and then press ENTER.
2. Press the WPS button on your Access Point device.

#### Tip

- How long the WPS button should be pressed differs depending on the type of Access Point device. Refer to the instruction manual provided with your Access Point device for operations.

### ■ PIN code method

1. Use ▲/▼ to select “PIN Code” and then press ENTER.  
An 8-digit PIN code is displayed. The PIN code is displayed scrolling on the AV receiver’s display.
2. Input the provided code in your Access Point.  
For information on the registration process, please refer to the instruction manual provided with your Access Point device.

- 7 Press ENTER to confirm.

Connection to your Access Point starts and Wi-Fi indicator flashes. After the connection to your Access Point is completed, Wi-Fi indicator lights and the connection status is displayed on the screen.

This completes the wireless LAN setup.

You can review your setup with the “Status” option on the “Wireless Setup” menu.

#### Note

- If Wi-Fi indicator doesn’t light, the connection to your Access Point is not done successfully. Configure this setting again (→ page 94).



## Manual wireless LAN setup

- 1 Press **RECEIVER** followed by **HOME**.
- 2 Use **◀/▶** or **▲/▼** to select “Setup”, and then press **ENTER**.
- 3 Use **▲/▼** to select “Hardware Setup”, and then press **ENTER**.
- 4 Use **▲/▼** to select “Network”, and then press **ENTER**.
- 5 Use **▲/▼** to select “Network Connection”, and **◀/▶** to select “Wireless”, and then press **ENTER** (→ page 77).

The “Wireless Setup” menu is displayed on screen.

### Tip

- The same setting is available even if “Wireless” is selected in “Network Connection” in initial setup (→ page 26).

- 6 Use **▲/▼** to select “Search Wireless Network” and then press **ENTER**.

A list of available Access Points is displayed.

### Tip

- If Access Point you wish to connect to is not displayed in the list of available Access Points, the setting also can be made by entering “SSID”, “Security”, and “Password” manually after selecting “Direct Input”.

- 7 Use **▲/▼** to select the Access Point you wish to connect to, and then press **ENTER**.

Depending on your encryption settings, the security of your Access Point will provide one of the following patterns:

#### ■ WEP method

1. Use **▲/▼** to select “Default Key ID” and then press **ENTER**.
2. Use **▲/▼** to choose an ID between 1 and 4, and then press **ENTER**.
3. Use **▲/▼** to select “Password” and then press **ENTER**.
4. Use the keyboard on screen to enter the password and confirm with “OK”.

#### ■ WPA/WPA2 method

1. Use **▲/▼** to select “Password” and then press **ENTER**.
2. Use the keyboard on screen to enter the password and confirm with “OK”.

#### ■ No encryption

If your Access Point device is not secured by encryption, there is no need to input any secret key.

### Tip

- When you select the Access Point you wish to connect to from the list of available Access Points, “SSID” and “Security” are automatically displayed. These settings can be changed manually.

- 8 Select “OK” and press **ENTER**.

Connection to your Access Point starts and **Wi-Fi** indicator flashes. After the connection to your Access Point is completed, **Wi-Fi** indicator lights and the connection status is displayed on the screen.

This completes the wireless LAN setup.

You can review your setup with the “Status” option on the “Wireless Setup” menu.

### Note

- If **Wi-Fi** indicator doesn’t light, the connection to your Access Point is not done successfully. Configure this setting again (→ page 94).



# Playback

- “Playing Music Files on a Shared Folder” (→ [page 39](#))
- “Remote Playback” (→ [page 40](#))
- “Listening to AM/FM Radio” (→ [page 41](#))
- “Playing Audio and Video from Separate Sources” (→ [page 43](#))
- “Controlling Other Components” (→ [page 82](#))
- “Using the Onkyo Dock” (→ [page 87](#))

## Playback

This section describes the basic operation such as playback, listening mode, and other useful functions. Reading this manual from the beginning to this section helps you to understand the basic connection/setup/operation.

### ■ Screen Saver

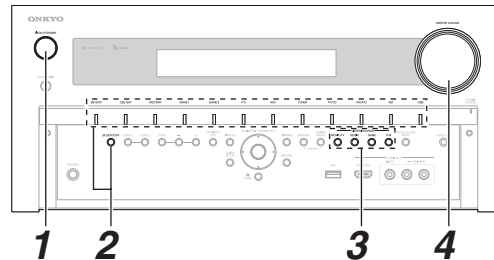
If there is no video signal on the current input source and no operation for a specific time (three minutes by default), a screen saver automatically comes on.

#### Tip

- The time until the screen saver activates itself can be changed in the “**Screen Saver**” setting (→ [page 74](#)).
- The screen will return to its previous state if the AV receiver is operated.

See also:

- “Playing an Audio from Bluetooth-enabled Device” (→ [page 34](#))
- “Playing a USB Device” (→ [page 35](#))
- “Listening to TuneIn” (→ [page 35](#))
- “Registering Other Internet Radio” (→ [page 37](#))
- “Playing Music Files on a Server (DLNA)” (→ [page 37](#))



(Actual location of buttons depends on the country.)

- 1 Turn on the AV receiver, the TV and the AV components.**
- 2 Select the input on the AV receiver to play the AV components.**

\* When you operate the AV receiver with the remote controller, press the **RECEIVER** button first.

Press the input selector button to which the AV components to be played is connected.

Press the **TV/CD** button to play the audio of the TV. Switching the input on the TV is also required. Select the input to which the AV receiver is connected by using the TV remote controller.

\* For the CEC compatible TV and the AV components connected with HDMI connections, switching the input is automatically performed. Switch the input manually for other AV components.

- 3 Select the desired listening mode.**
- 4 Adjust the volume.**

You can enjoy various types of listening mode. The listening mode is switched by pressing Listening mode button on the AV receiver or the remote controller.

You can enjoy the surround sound.

#### Tip

- When listening to an HDMI component through the AV receiver, set the HDMI component so that its video can be seen on the TV screen (on the TV, select the input of the HDMI component connected to the AV receiver). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV receiver or the sound may be cut off.



## Controlling Contents of USB or Network Devices

(→ page 34)

Press **USB** or **NET** first.



- |   |   |
|---|---|
| ① | <b>TOP MENU</b><br>This button displays the top menu for each media or service.   |
| ② | <b>▲/▼ and ENTER</b><br>These buttons navigate through the menus.<br>◀▶<br>This button cycles through pages.  |
| ③ | ▶<br>This button starts playback.   |
| ④ | ◀◀<br>This button selects the beginning of the current song. Pressing this button twice selects the previous song.  |
| ⑤ | ◀◀<br>This button fast-reverses the current song.   |
| ⑥ | ⏸<br>This button pauses playback.   |
| ⑦ | <b>SEARCH</b><br>You can toggle between the playback screen and the list screen during playback.  |
| ⑧ | <b>DISPLAY</b><br>This button switches between song information during playback. Press this button while the list screen is displayed to return to the playback screen. |
| ⑨ | <b>MENU</b><br>This button displays the menu of Internet radio services.  |
| ⑩ | <b>RETURN</b><br>This button returns to the previous menu.  |
| ⑪ | ▶▶<br>This button selects the next song.  |
| ⑫ | ▶▶▶<br>This button fast-forwards the current song.  |
| ⑬ | ■<br>This button stops playback.  |
| ⑭ | <b>RANDOM</b><br>This button performs random playback.  |

- |   |  |
|---|--|
| ⑮ | <b>REPEAT</b><br>Press this button repeatedly to cycle through the repeat modes. |
|---|--|

### Tip













- See “Controlling Other Components” about the operation of other components (→ page 82).
- The AV receiver supports Album art display, and displaying image file format of JPEG, PNG, and BMP is possible. The image file format cannot be displayed in either of the following cases:
  - Total number of horizontal and vertical pixels is more than 2048 x 2048.
  - Image data size (JPEG/PNG) is more than 4 MB.

### Note

- The buttons you can use will differ depending on the devices and media used for playback.
- When you select the **NET** input selector on the AV receiver for the first time, “**DISCLAIMER**” screen is displayed on TV. Please read the contents thoroughly before using network service. Select “**Agree**” if you agree with the content. If you disagree, network service is not available on the AV receiver (→ page 98).

## Understanding Icons on the Display

This section describes icons that appear on the AV receiver's display during media playback.

Icon	Description
	Folder
	Track
	Playback
	Pause
	Fast Forward
	Fast Reverse
	Artist
	Album
	Repeat One Track
	Repeat Folder (USB Device)
	Repeat
	Shuffle

## Playing an Audio from Bluetooth-enabled Device

### About the Bluetooth Wireless Technology

Bluetooth wireless technology is a short-range wireless technology that enables wireless data communication between digital devices. Bluetooth wireless technology operates within a range of about 15 meters (49 feet). You do not need to use a cable for connection, nor is it necessary for the devices to face one another, such is the case with infrared technology.

#### Tip

- The on-screen information appears only on a TV that is connected to HDMI outputs.
- If your Bluetooth-enabled device supports A2DP protocol, its audio file will play through the AV receiver.
- Connection is not guaranteed for all Bluetooth-enabled devices.

### Operating on the Remote Controller

The Bluetooth-enabled device can be operated by the supplied remote controller.

#### Tip

- To operate your Bluetooth-enabled device by the remote controller, the Bluetooth-enabled device must support profile: AVRCP.
- Operation by the remote controller is not guaranteed for all Bluetooth-enabled devices.

## Pairing the AV receiver with a Bluetooth-enabled device

Pairing is an operation where Bluetooth-enabled devices register with each other beforehand. Use the procedure below to pair the AV receiver with your Bluetooth-enabled device. Once a pairing operation is performed, it does not need to be performed again.

- 1 Place the Bluetooth-enabled device within 1 meter (3.3 feet) from the AV receiver.**
- 2 Select "BLUETOOTH" in "Input" in Quick Setup, and press ENTER (→ page 56).**

**BLUETOOTH** indicator flashes and the AV receiver is put to pairing mode.

"Now Pairing" appears on the AV receiver's display.

#### Tip

- The same operation can be done by pressing **BLUETOOTH** button on the AV receiver.
- When connecting a Bluetooth-enabled device paired with the AV receiver to the AV receiver, **BLUETOOTH** input selector is automatically selected.
- If you connect the AV receiver to another Bluetooth-enabled device, hold down **BLUETOOTH** button until **BLUETOOTH** indicator flashes or make settings in "Status" of "Bluetooth" for pairing (→ page 78).
- Some Bluetooth-enabled device may need to re-establish pairing for each connection.

#### Note

- "BLUETOOTH" cannot be selected, if you've selected **NET** or **USB** as input selector in Multi Zone.

### 3 During this period (about 2 minutes), you can operate the Bluetooth-enabled device to pair with the AV receiver.

#### Note

- When establishing a connection with the AV receiver, select the profile (A2DP, AVRCP) at the Bluetooth-enabled device. If the Bluetooth-enabled device does not support the AVRCP profile, you cannot perform playback or other operations with the AV receiver.

#### Tip

- For details on the Bluetooth connection, refer to the instruction manual of the Bluetooth-enabled device.

### 4 Once the AV receiver is detected and the model name of the AV receiver appears on the display of your Bluetooth-enabled device, select the model name.

When a Bluetooth connection is established successfully, **BLUETOOTH** indicator will light.

#### Tip

- The model name appeared on the display of your Bluetooth-enabled device is "Onkyo TX-NR828".

### 5 If passkey\* is required on the display of the Bluetooth-enabled device, enter "0000".

The AV receiver only supports numerical passkey up to 4 digits.

\* Passkey may be called "Passcode", "PIN code", "PIN number" or "Password".

### 6 Play back the desired music on the Bluetooth-enabled device.

The audio is output from the AV receiver.

#### Tip

- The AV receiver may not work as normal depending on the circumstance even though the AV receiver is placed within the 15 meters range. In such cases, get the Bluetooth-enabled device closer to the AV receiver and retry the operation.

- When disconnecting on your Bluetooth-enabled device, **BLUETOOTH** indicator on the AV receiver will go off.
- If there is no sound output even after the pairing is done successfully, consult the instruction manual of the Bluetooth-enabled device, and then select the model name of the AV receiver as the audio output device.
- While connected to a Bluetooth-enabled device, the AV receiver cannot be detected and a connection cannot be established from another Bluetooth-enabled device.
- If you cannot connect with a paired Bluetooth-enabled device, perform the pairing operation between the AV receiver and the Bluetooth-enabled device again.

#### Note

- Due to the characteristic of Bluetooth wireless technology, the sound played on the AV receiver may slightly delay from the sound played on the Bluetooth-enabled device.

## Playing a USB Device

#### Tip

- The on-screen information appears only on a TV that is connected to HDMI outputs.

This section explains how to play music files from a USB device (e.g., USB flash drives and MP3 players). See also:

- "Network/USB Features" (→ [page 103](#)).

- Press **USB** to select the "USB" input.
- Plug your **USB device** into the **AV receiver's USB port**.  
The **USB** indicator lights. It will flash if the AV receiver cannot read the USB device.
- Press **ENTER**.  
A list of the device's contents appears. To open a folder, use **▲/▼** to select it, and then press **ENTER**.
- Use **▲/▼** to select a music file, and press **ENTER** or **▶** to start playback.

#### Note

- While the message "Connecting..." appears on the AV receiver's display, do not disconnect the USB cable supplied with the USB device from the **USB** port.

## Listening to Tuneln

You need to connect the AV receiver to your home network (→ [pages 19, 30](#)).

#### Tip

- The on-screen information appears only on a TV that is connected to HDMI outputs.

Tuneln is a new radio service which offers the music, sports and news all over the world.

Over 70,000 radio stations and 2 million on-demand programs are registered, and you can easily enjoy them by selecting stations or programs of your choice. Tuneln is preprogrammed on the AV receiver.

### 1 Press **NET**.

The network service screen appears, and the **NET** indicator lights. If it flashes, the AV receiver is not connected to the network correctly. If wired LAN connection is selected, verify that the Ethernet cable is firmly connected to the AV receiver. If wireless LAN connection is selected, verify that the **Wi-Fi** indicator lights.

#### Tip

- The same operation can be done by selecting "Network Service" in the Home menu.

### 2 Use **▲/▼/◀/▶** to select "Tuneln" and then press **ENTER**.



### 3 Use ▲/▼ to select a station or a program, and then press ENTER.

Playback starts.



Either of the following menus can be selected by pressing the **MENU** button on the remote controller or pressing **ENTER** button to select **"Go to Menu"**.

#### ▶ Add to My Presets

In this menu, stations or programs can be stored in **"My Presets"**.

#### ▶ Remove from My Presets

In this menu, stations or programs stored in **"My Presets"** can be deleted.

#### ▶ Report a problem

This menu is used to report problems on TuneIn service or resolve the problems in a wizard style.

#### ▶ View Schedule

In this menu, program listings of stations or programs can be displayed.

#### ▶ Clear recents

In this menu, all the stations and programs stored in **"Recents"** can be deleted.

#### ▶ Add to My Favorites

In this menu, stations or programs can be stored in **"My Favorites"**.

## Setting an TuneIn account

To create a user account for TuneIn, open a browser window such as Internet Explorer®, and connect to tunein.com website. With a TuneIn account, you can quickly search and browse for stations and programs at tunein.com website and save as your favorites which will automatically appear in your AV receiver My Presets account. If you have a TuneIn account, select **"Login"** and then **"I have a TuneIn account"** on the top list. Enter your user name and password to login.

#### Tip

- Select **"Login with a registration code"**, and associate a device from my page on TuneIn website by using a registration code displayed on the screen. This allows you to login without entering a user name and a password.

## Adding TuneIn radio stations or programs to My Favorites/My Presets

There are two ways you can register specific Internet radio stations (programs) from the TuneIn.

#### • Adding to My Favorites

The selected program will be added to **"My Favorites"** on the network service screen, which appears when pressing **NET**.

1. Select radio stations or programs, and press **MENU** button on the remote controller.
2. Use ▲/▼ to select **"Add to My Favorites"**, and press **ENTER**.
3. Use ▲/▼/◀/▶ to select **"OK"**, and press **ENTER**.

#### Tip

- You can rename the stations saved in **"My Favorites"** (→ [page 37](#)).

#### • Adding TuneIn radio stations or programs to My Presets

Select **"TuneIn"**, and press **ENTER** button to display a folder of **"My Presets"** on the screen that displays Category/Area, etc. Store your favorite stations or programs in this folder.

1. Select radio stations or programs, and press **MENU** button on the remote controller.
2. Use ▲/▼ to select **"Add to My Presets"**, and press **ENTER**.

#### Tip

- If no radio stations or programs are stored in **"My Presets"**, **"My Presets"** folder will not be displayed.



## Registering Other Internet Radio

You need to connect the AV receiver to your home network (→ [pages 19, 30](#)).

### Tip

- The on-screen information appears only on a TV that is connected to HDMI outputs.

Internet radio URLs in the following formats are supported: PLS, M3U, and podcast (RSS). However, depending on the type of data or audio format used by the Internet radio station, you may not be able to listen to some stations.

To listen to other Internet radio stations, you must register your station in “**My Favorites**” of the network service screen, as described below.

### Note

- Services available may vary depending on the region. See the separate instructions for more information.
- Certain network service or contents available through this device may not be accessible in case the service provider terminates its service.

- 1 Select “Network” on the Setup menu to verify your IP address (→ [page 77](#)).**  
Take a note of the IP address.
- 2 On your computer, start your web browser.**
- 3 Enter the AV receiver’s IP address in the browser’s Internet address (URL) field.**  
If you are using Internet Explorer®, you can also enter the URL by selecting “Open...” on the “File” menu.  
Information on the AV receiver is then shown on your Internet browser (Web Setup).
- 4 Click on the “My Favorites” tab, and enter the Internet radio station’s name and URL.**

## 5 Click “Save” to save the Internet radio station.

The Internet radio station is then added to “**My Favorites**”. To play the registered station, press **NET**, and then select “**My Favorites**” on the network service screen. A list of registered Internet radio stations appears. Select the one that you saved and press **ENTER**.

### Tip

- If you want to add a new station directly from “**My Favorites**”, select an empty slot in the list and press **MENU**. Then, select “**Create New Station**” and press **ENTER**. Pressing **ENTER** again will display the keyboard screen. Use that keyboard to enter the station’s name and URL respectively, and then press **ENTER**.
- If you want to delete a station saved in “**My Favorites**”, press **MENU** with the station selected or while the station is playing. Then, use **▲/▼** to select “**Delete from My Favorites**” and press **ENTER**. You can also delete stations from the Web Setup.
- If you want to rename a station, select the desired station and press **MENU**. Then, use **▲/▼** to select “**Rename this station**” and press **ENTER**.
- You can save up to 40 Internet radio stations.

## Changing the Icon Layout on the Network Service Screen

### Tip

- You need to connect your TV to the HDMI output (**HDMI OUT MAIN**) to make the following on-screen setting.

The layout of icons can be customized by switching their positions on the network service screen.

### 1 Press **NET**.

The network service screen appears.

### Tip

- The same operation can be done by selecting “**Network Service**” in the Home menu.

### 2 Press **MODE/D (blue)** on the remote controller.

### 3 Use **▲/▼/◀/▶** to select an icon to move, and then press **ENTER**.

### 4 Use **▲/▼/◀/▶** to select another icon as the destination, and then press **ENTER**.

The icons switch positions and the message “**Completed!**” appears.

## Playing Music Files on a Server (DLNA)

You need to connect the AV receiver to your home network (→ [pages 19, 30](#)).

### Tip

- The on-screen information appears only on a TV that is connected to HDMI outputs.

This section explains how to play music files on a computer or media server through the AV receiver (Server Playback).



## Windows Media Player Setup

### ■ Windows Media Player 11 Setup

This section explains how to configure Windows Media Player 11 so that the AV receiver can play the music files stored on your computer.

#### 1 Start Windows Media Player 11.

#### 2 On the “Library” menu, select “Media Sharing”.

The “Media Sharing” dialog box appears.

#### 3 Select the “Share my media” check box, and then click “OK”.

A list of the supported devices appears.

#### 4 Select the AV receiver in the list, and then click “Allow”.

The corresponding icon will be checked.

#### 5 Click “OK” to close the dialog box.

This completes the Windows Media Player 11 configuration.

You can now play the music files in your Windows Media Player 11 library through the AV receiver.

#### Tip

- Windows Media Player 11 can be downloaded for free from the Microsoft web site.

### ■ Windows Media Player 12 Setup

This section explains how to configure Windows Media Player 12 so that the AV receiver can play the music files stored on your personal computer.

#### 1 Start Windows Media Player 12.

#### 2 On the “Stream” menu, select “Turn on media streaming”.

A dialog box appears.

#### Tip

- If the media streaming is already activated, clicking on “More streaming options...” in the “Stream” menu will display a list of the playback devices connected to the network. You can skip step 3.

#### 3 Move your cursor and click on “Turn on media streaming”.

A list of media server appears. Wording may vary slightly depending on the network location.

#### 4 On the “Media streaming options”, select the AV receiver and confirm that it is set to “Allowed”.

#### 5 Click “OK” to close the dialog box.

This completes the Windows Media Player 12 configuration.

You can now play the music files in your Windows Media Player 12 library.

## Playing music files on a server (DLNA)

#### 1 Start your computer or media server.

#### 2 Press NET.

The network service screen appears, and the NET indicator lights. If it flashes, the AV receiver is not connected to the network correctly. If wired LAN connection is selected, verify that the Ethernet cable is firmly connected to the AV receiver. If wireless LAN connection is selected, verify that the Wi-Fi indicator lights.

#### Tip

- The same operation can be done by selecting “Network Service” in the Home menu.

#### 3 Use ▲/▼/◀/▶ to select “DLNA”, and press ENTER.

#### 4 Use ▲/▼ to select a server, and then press ENTER.

The menu is displayed according to the server functions.

#### Note

- The search function does not work with media servers which do not support this function.
- Photos and movies stored on a media server cannot be accessed from the AV receiver.
- Depending on the sharing settings in the media server, the AV receiver may not be able to access the content. See the instruction manual of the media server.

#### 5 Use ▲/▼ to select an item, and then press ENTER or ▶ to start playback.



#### Note

- Depending on the media server, ◀◀/▶▶/|| may not work.
- If the message “No Item.” appears, this means that no information can be retrieved from the server. In this case, check your server, network, and AV receiver connections.

## Playing Music Files on a Shared Folder

This section explains how to play music files on a computer or NAS (Network Attached Storage) through the AV receiver.

### Windows 8/Windows 7 Setup

#### ■ Setting the sharing options

- 1 Select “Choose homegroup and sharing options” on the Control Panel.

##### Tip

- If this option is not available, verify that “View by:” is set to “Category”.

- 2 Select “Change advanced sharing settings”.

- 3 Under “Home or Work”, verify that the following items are checked:

“Turn on network discovery”, “Turn on file and printer sharing”, “Turn on sharing so anyone with network access can read and write files in the Public folders”, and “Turn off password protected sharing”.

- 4 Select “Save changes” and click “OK” on the confirmation screen.

#### ■ Creating a shared folder

- 1 Right-click the folder that you want to share.
- 2 Select “Properties”.
- 3 On the “Sharing” tab, select “Advanced Sharing”.
- 4 Check the check box of “Share this folder” and then click “OK”.
- 5 Under “Network File and Folder Sharing”, select “Share”.
- 6 Select “Everyone” from the pull-down menu, click “Add”, and then click “Share”.

##### Tip

- With this setting, everyone is allowed to access the folder. If you want to assign a user name and password to the folder, make the corresponding settings for “Permissions” in “Advanced Sharing” of the “Sharing” tab.
- Verify that “Workgroup” is properly set.

##### Note

- When using NAS (Network Attached Storage), refer to the instruction manual provided with your NAS unit.

## Playing music files on a shared folder

In order to enjoy Home Media, you must first create a shared folder on your computer.

- 1 Press NET.

The network service screen appears, and the NET indicator lights. If it flashes, the AV receiver is not connected to the network correctly. If wired LAN connection is selected, verify that the Ethernet cable is firmly connected to the AV receiver. If wireless LAN connection is selected, verify that the Wi-Fi indicator lights.

##### Tip

- The same operation can be done by selecting “Network Service” in the Home menu.

- 2 Use ▲/▼/◀/▶ to select “Home Media”, and press ENTER.

- 3 Use ▲/▼ to select a server, and then press ENTER.

##### Tip

- The server name of your computer can be viewed on the computer properties screen.

- 4 Use ▲/▼ to select the desired shared folder and then press ENTER.

- 5 When asked for a user name and password, enter the necessary login information.

##### Tip

- The login information will be remembered for the next time you log in.
- The login information is that of the user account set when creating a shared folder.

- 6 Use ▲/▼ to select a music file and then press ENTER or ▶.

The playback of the selected file starts.



## Remote Playback

You need to connect the AV receiver to your home network (→ [pages 19, 30](#)).

### Tip

- The on-screen information appears only on a TV that is connected to HDMI outputs.

Remote playback is supported by Windows Media Player 12.

Remote Playback means you can play the music files stored on a media server or personal computer with the AV receiver by operating the controller device in the home network.

## Windows Media Player 12 Setup

This section explains how to configure Windows Media Player 12 so that the AV receiver can play the music files stored on your personal computer.

### 1 Start Windows Media Player 12.

### 2 On the “Stream” menu, select “Turn on media streaming”.

A dialog box appears.

#### Tip

- If the media streaming is already activated, clicking on “More streaming options...” in the “Stream” menu will display a list of the playback devices connected to the network. You can skip step 3.

### 3 Move your cursor and click on “Turn on media streaming”.

A list of media server appears. Wording may vary slightly depending on the network location.

### 4 On the “Media streaming options”, select the AV receiver and confirm that it is set to “Allowed”.

### 5 Click “OK” to close the dialog box.

This completes the Windows Media Player 12 configuration.

You can now play the music files in your Windows Media Player 12 library.

#### Tip

- On the “Stream” menu, confirm that “Allow remote control of my Player...” is checked.

## Using Remote Playback

### 1 Turn on the AV receiver.

### 2 Start Windows Media Player 12.

To enable remote playback, you must first configure Windows Media Player 12.

### 3 On Windows Media Player 12, right-click on a music file.

The right-click menu appears.

#### Tip

- For selecting another media server, select the desired media server from the “Other Libraries” menu on Windows Media Player 12.

### 4 Select the AV receiver in “Remote playback”.

The “Play to” window appears and playback on the AV receiver starts. Operations during remote playback can be made from the “Play to” window of Windows 8/Windows 7 on your personal computer.

A playback screen will be displayed on the connected TV.

#### Tip

- If the operating system of your personal computer is Windows 8, click “Play to” and select the AV receiver.

### 5 Adjusting the Volume.

You can adjust the volume by adjusting the volume bar in the “Remote playback” window. The default maximum volume level is 82 (0dB). If you wish to change this, enter the value from the Web Setup in your browser. Refer to step 3 of “Registering Other Internet Radio” for details (→ [page 37](#)).

The volume value of the remote window and the volume value of the AV receiver may not always match.

Adjustments you make to the volume in the AV receiver will not be reflected in the “Remote playback” window.

#### Note

- Remote playback cannot be used in any of the following cases:
  - Network services are being used.
  - Contents are being played from a USB device.
  - “Agree” is not selected on the “DISCLAIMER” screen displayed on the TV when you select the NET input selector on the AV receiver for the first time.



## Listening to AM/FM Radio

This section describes the procedure of using the buttons on the front panel, unless otherwise specified.

### Using the Tuner

With the built-in tuner you can enjoy AM and FM radio stations. You can store your favorite stations as presets for quick selection.

You can also change the frequency steps ([→ page 74](#)).

#### 1 Press TUNER to select either “AM” or “FM”.

In this example, FM has been selected.

Each time you press **TUNER**, the radio band changes between AM and FM.

Band	Frequency
FM	87.5 MHz

(Actual display depends on the country.)

### Tuning into Radio Stations

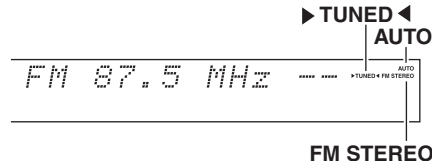
#### ■ Auto tuning mode

#### 1 Press TUNING MODE so that the AUTO indicator lights on the AV receiver’s display.

#### 2 Press TUNING ▲/▼.

Searching stops when a station is found.

When tuned into a station, the **TUNED** indicator lights. When tuned into a stereo FM station, the **FM STEREO** indicator lights as shown.



#### Tip

##### • Tuning into weak FM stereo stations

If the signal from a stereo FM station is weak, it may be impossible to get good reception. In this case, switch to manual tuning mode and listen to the station in mono.

#### ■ Manual tuning mode

In manual tuning mode, FM stations will be in mono.

#### 1 Press TUNING MODE so that the AUTO indicator goes off on the AV receiver’s display.

#### 2 Press and hold TUNING ▲/▼.

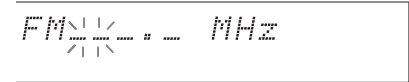
The frequency stops changing when you release the button.

Press the buttons repeatedly to change the frequency one step at a time.

#### ■ Tuning into stations by frequency

You can tune into AM and FM stations directly by entering the appropriate frequency.

#### 1 On the remote controller, press TUNER repeatedly to select “AM” or “FM”, followed by D.TUN.



(Actual display depends on the country.)

#### 2 Within 8 seconds, use the number buttons to enter the frequency of the radio station.

For example, to tune to 87.5 (FM), press **8, 7, 5** or **8, 7, 5, 0**.

If you have entered the wrong number, you can retry after 8 seconds.

### Presetting AM/FM Stations

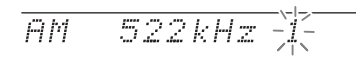
You can store a combination of up to 40 of your favorite AM/FM radio stations as presets.

#### 1 Tune into the AM/FM station that you want to store as a preset.

See the previous section.

#### 2 Press MEMORY.

The preset number flashes.



(Actual display depends on the country.)

#### 3 While the preset number is flashing (about 8 seconds), use PRESET ◀/▶ to select a preset from 1 through 40.

#### 4 Press MEMORY again to store the station or channel.

The station or channel is stored and the preset number stops flashing.

Repeat this procedure for all of your favorite AM/FM radio stations.

#### ■ Selecting Presets

##### 1 To select a preset, use PRESET ◀/▶ on the AV receiver, or the remote controller's CH +/-.

###### Tip

- You can also use the remote controller's number buttons to select a preset directly.

#### ■ Deleting Presets

##### 1 Select the preset that you want to delete. See the previous section.

##### 2 While holding down MEMORY, press TUNING MODE.

The preset is deleted and its number disappears from the AV receiver's display.

#### Using RDS (excluding North American models)

When tuned into an RDS station, the RDS indicator lights.

When the station is broadcasting text information, the text can be displayed.

#### ■ What is RDS?

RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e.g., news, sport, rock, etc.).

The AV receiver supports four types of RDS information:

##### PS (Program Service)

When tuned to an RDS station that's broadcasting PS information, the station's name will be displayed. Pressing DISPLAY will display the frequency for 3 seconds.

##### RT (Radio Text)

When tuned to an RDS station that's broadcasting text information, the text will be shown on the AV receiver's display.

##### PTY (Program Type)

This allows you to search for RDS radio stations by type.

##### TP (Traffic Program)

This allows you to search for RDS radio stations that broadcast traffic information (→ [page 43](#)).

###### Note

- RDS works only in areas where RDS broadcasts are available.
- In some cases, the text characters displayed on the AV receiver may not be identical to those broadcast by the radio station. Also, unexpected characters may be displayed when unsupported characters are received. This is not a malfunction.
- If the signal from an RDS station is weak, RDS data may be displayed intermittently or not at all.

#### ■ Displaying Radio Text (RT)

##### 1 Press RT/PTY/TP once.

The RT information scrolls across the AV receiver's display.

###### Note

- The message "Waiting" may appear while the AV receiver waits for the RT information.
- If the message "No Text Data" appears, no RT information is available.

#### ■ Finding Stations by Type (PTY)

You can search for radio stations by type.

##### 1 Press RT/PTY/TP twice.

The current program type appears on the AV receiver's display.

##### 2 Use PRESET ◀/▶ to select the type of program you want.

See the table shown later in this chapter.

##### 3 To start the search, press the enter button.

The AV receiver searches until it finds a station of the type you specified, at which point it stops briefly before continuing with the search.

##### 4 When a station you want to listen to is found, press the enter button.

If no stations are found, the message "Not Found" appears.

## ■ Listening to Traffic News (TP)

You can search for stations that broadcast traffic news.

### 1 Press RT/PTY/TP three times.

If the current radio station is broadcasting TP (Traffic Program), “[TP]” will appear on the AV receiver’s display. If “TP” without square brackets appears, this means that the station is not broadcasting TP.

### 2 To locate a station that is broadcasting TP, press the enter button.

The AV receiver searches until it finds a station that’s broadcasting TP.

If no stations are found, the message “**Not Found**” appears.

## RDS program types (PTY)

Type	Display
None	None
News reports	News
Current affairs	Affairs
Information	Info
Sport	Sport
Education	Educate
Drama	Drama
Culture	Culture
Science and technology	Science
Varied	Varied
Pop music	Pop M
Rock music	Rock M
Middle of the road music	Easy M
Light classics	Light M
Serious classics	Classics
Other music	Other M
Weather	Weather
Finance	Finance
Children’s programmes	Children
Social affairs	Social
Religion	Religion
Phone in	Phone In
Travel	Travel
Leisure	Leisure
Jazz music	Jazz
Country music	Country
National music	Nation M
Oldies music	Oldies
Folk music	Folk M
Documentary	Document
Alarm test	TEST
Alarm	Alarm!

## Playing Audio and Video from Separate Sources

You can listen to the audio of one input source while watching the video of another. This function takes advantage of the fact that when an audio-only input source (**PHONO, TV/CD, PC, TUNER**) is selected, the video input source remains unchanged. The following procedure shows how to listen to a CD player’s audio source connected to **TV/CD IN** while watching a Blu-ray Disc/DVD player’s video source connected to **BD/DVD**.

### Tip

- To use an input selector as audio-exclusive, you must assign all video inputs to “- - - -” (→ [pages 62, 63](#)).

### 1 Press BD/DVD.

### 2 Press TV/CD.

The audio output changes to the CD source, but the video of previously-selected **BD/DVD** is retained.

### 3 Start playback on your Blu-ray Disc/DVD and CD players.

You can now enjoy watching your Blu-ray Disc/DVD with the sound of your CD player.





## Using the Listening Modes

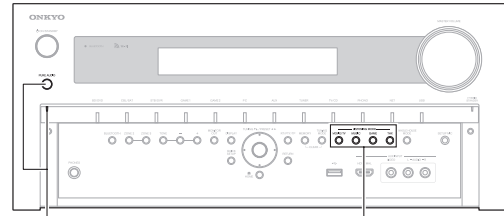
### About Listening Modes

The AV receiver's listening modes can transform your listening room into a movie theater or concert hall, with high fidelity and stunning surround sound.

### Selecting Listening Modes

#### ■ Listening Mode Buttons

Press **RECEIVER** first.



PURE AUDIO

MOVIE/TV, MUSIC, GAME, THX

#### MOVIE/TV button

This button selects the listening modes intended for use with movies and TV.

#### MUSIC button

This button selects the listening modes intended for use with music.

#### GAME button

This button selects the listening modes intended for use with video games.

#### THX button

This button selects the THX listening modes.

#### PURE AUDIO button and indicator

This button selects the Pure Audio listening mode. When this mode is selected, the AV receiver's display and analog video circuitry are turned off. Only video signals input through HDMI input can be output from the HDMI output. The indicator lights when this mode is selected. Pressing this button again will select the previous listening mode.

#### Note

- The Dolby Digital and DTS listening modes can only be selected if your Blu-ray Disc/DVD player is connected to the AV receiver with a digital audio connection (coaxial, optical, or HDMI).
- The listening modes you can select depends on the format of the input signal. To check the format, see "Displaying Source Information" (→ [page 52](#)).
- While a pair of headphones is connected, you can select the following listening modes: Pure Audio, Mono, Direct, and Stereo.



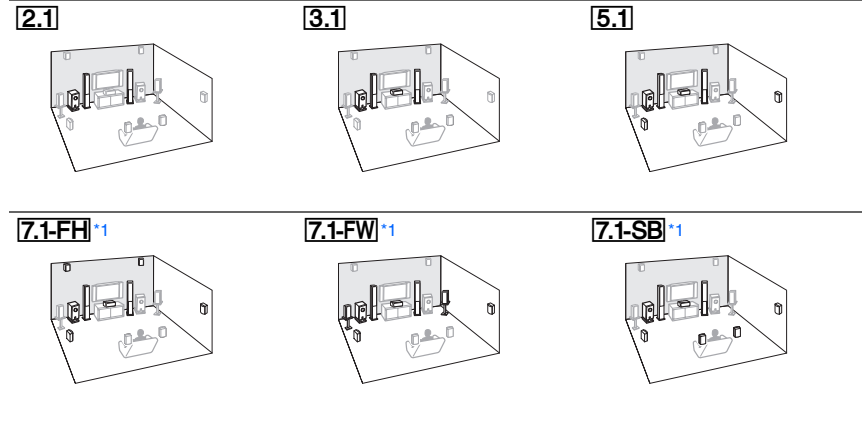
### Input Source

The following audio formats are supported by the listening modes.

<b>MONO</b>	This is mono (monophonic) sound.
<b>STEREO</b>	This is stereo (stereophonic) sound. Two independent audio signal channels are reproduced through two speakers.
<b>5.1ch</b>	This is 5.1-channel surround sound. This surround system has five main channels of sound and a sixth subwoofer channel (called the point-one channel).
<b>7.1ch</b>	This is 7.1-channel surround sound. This is a further sound enhancement to 5.1-channel sound with two additional speakers that provide greater sound envelopment and more accurate positioning of sounds.
<b>DTS-ES</b>	This is DTS-ES surround sound. This surround system can produce a discrete or a matrix-encoded sixth channel from existing DTS 5.1 encoded material.
<b>DDEX</b>	This is Dolby Digital EX surround sound. This provides a center back surround channel from 5.1-channel sources.

### Speaker Layout

The illustration shows which speakers are activated in each channel. See “Speaker Configuration” for the speaker setup (→ page 64).



\*1 After enabling the corresponding speakers, press **RECEIVER** followed by **SP** (speaker layout) repeatedly to select the speakers you want to use: front high, front wide, or surround back.

### Onkyo-Original DSP Listening Modes

Listening Mode	Description	Input Source	Speaker Layout	
<b>Orchestra</b> <i>Orchestra</i>	Suitable for classical or operatic music, this mode emphasizes the surround channels in order to widen the stereo image, and simulates the natural reverberation of a large hall.	<b>MONO</b> <b>STEREO</b> <b>5.1ch</b> <b>7.1ch</b> <b>DTS-ES</b> <b>DDEX</b>	<b>5.1</b> <b>7.1</b>	
<b>Unplugged</b> <i>Unplugged</i>	Suitable for acoustic instruments, vocals and jazz, this mode emphasizes the front stereo image, giving the impression of being right in front of the stage.			
<b>Studio-Mix</b> <i>Studio-Mix</i>	Suitable for rock or pop music, listening to music in this mode creates a lively sound field with a powerful acoustic image, like being at a club or rock concert.			
<b>TV Logic</b> <i>TV Logic</i>	This mode adds realistic acoustics to TV shows produced in a TV studio, surround effects to the entire sound, and clarity to voices.			
<b>Game-RPG</b> <i>Game-RPG</i>	In this mode, the sound has a dramatic feel with a similar atmosphere to Orchestra mode.			
<b>Game-Action</b> <i>Game-Action</i>	In this mode, sound localization is distinct with emphasis on bass.			
<b>Game-Rock</b> <i>Game-Rock</i>	In this mode, sound pressure is emphasized to heighten live feel.			
<b>Game-Sports</b> <i>Game-Sports</i>	Suitable for audio source with much reverberation.			
<b>All Ch Stereo</b> <i>All Ch Stereo</i>	Ideal for background music, this mode fills the entire listening area with stereo sound from the front, surround, and surround back speakers.			<b>3.1</b> <b>5.1</b> <b>7.1</b>
<b>Full Mono</b> <i>Full Mono</i>	In this mode, all speakers output the same sound in mono, so the sound you hear is the same regardless of where you are within the listening room.			



Listening Mode	Description	Input Source	Speaker Layout
<b>T-D (Theater-Dimensional)</b> <i>T-D</i>	With this mode you can enjoy a virtual surround sound even with only two or three speakers. This works by controlling how sounds reach the listener's left and right ears. Good results may not be possible if there's too much reverb, so we recommend that you use this mode in an environment with little or no natural reverb.	<b>MONO</b> <b>STEREO</b> <b>5.1ch</b> <b>7.1ch</b> <b>DTS-ES</b> <b>Dolby EX</b>	<b>2.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b>

■ Listening Modes

Listening Mode	Description	Input Source	Speaker Layout
<b>Pure Audio<sup>1</sup></b> <i>Pure Audio</i>	In this mode, the display and video circuitry are turned off, minimizing possible noise sources for the ultimate in high-fidelity audio reproduction. (As the analog video circuitry is turned off, only video signals input through HDMI IN can be output from the HDMI output.)	<b>MONO</b> <b>STEREO</b> <b>5.1ch</b> <b>7.1ch</b> <b>DTS-ES</b> <b>Dolby EX</b>	<b>2.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b> <sup>2</sup>
<b>Direct</b> <i>Direct</i>	In this mode, audio from the input source is output without surround-sound processing. The speaker configuration (presence of speakers) and speaker distance settings are enabled, but much of the processing set via the audio setup is disabled. See "On-screen Setup" for more details (→ page 56).		<b>2.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b>
<b>Stereo</b> <i>Stereo</i>	Sound is output from the front left and right speakers and subwoofer.		<b>2.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b>
<b>Mono</b> <i>Mono</i>	Use this mode when watching an old movie with a mono soundtrack, or use it with the foreign language soundtracks recorded in the left and right channels of some movies. It can also be used with DVDs or other sources containing multiplexed audio, such as karaoke DVDs.		<b>2.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b>
<b>Multichannel</b> <i>Multich</i>	This mode is for use with PCM multichannel sources.	<b>5.1ch</b> <b>7.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b>

Listening Mode	Description	Input Source	Speaker Layout	
<b>DSD<sup>3</sup></b> <i>DSD</i>	In this mode, audio from the input source is output without surround-sound processing. The speaker configuration (presence of speakers), crossover frequency, speaker distance, A/V Sync and much of the processing set via the audio setup are enabled. See "On-screen Setup" for more details (→ page 56).	<b>5.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b>	
<b>Dolby Digital</b> <i>Dolby D</i>				
<b>Dolby Digital Plus<sup>4</sup></b> <i>Dolby D +</i>		<b>5.1ch</b> <b>7.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b> <sup>2</sup>	
<b>Dolby TrueHD</b> <i>Dolby TrueHD</i>		<b>5.1ch</b> <b>7.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b> <sup>2</sup>	
<b>DTS</b> <i>DTS</i>		<b>5.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b>	
<b>DTS-HD High Resolution Audio</b> <i>DTS-HD HR</i>		<b>5.1ch</b> <b>7.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b> <sup>2</sup>	
<b>DTS-HD Master Audio</b> <i>DTS-HD MSTR</i>		<b>5.1ch</b> <b>7.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b> <b>3.1</b> <b>5.1</b> <b>7.1</b> <sup>2</sup>	
<b>DTS Express</b> <i>DTS Express</i>		<b>5.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b>	
<b>DTS 96/24<sup>5</sup></b> <i>DTS 96/24</i>		This mode is for use with DTS 96/24 sources. This is high-resolution DTS with a 96 kHz sampling rate and 24-bit resolution, providing superior fidelity. Use it with DVDs that bear the DTS 96/24 logo.	<b>5.1ch</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b>
<b>DTS-ES Discrete<sup>6</sup></b> <i>ES Discrete</i>		This mode is for use with DTS-ES Discrete soundtracks, which use a discrete surround back channel for true 6.1/7.1-channel playback. The seven totally separate audio channels provide better spatial imaging and 360-degree sound localization, perfect for sounds that pan across the surround channels. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Discrete soundtrack.	<b>DTS-ES</b>	<b>7.1-SE</b>



Listening Mode	Description	Input Source	Speaker Layout
<b>DTS-ES Matrix</b> <sup>6</sup> <i>ES Matrix</i>	This mode is for use with DTS-ES Matrix soundtracks, which use a matrix-encoded back-channel for 6.1/7.1-channel playback. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Matrix soundtrack.	<b>DTS-ES</b>	<b>7.1-SB</b>
<b>Dolby Pro Logic IIx</b> <sup>7</sup> <b>Dolby Pro Logic II</b> <i>PLII Movie</i> <i>PLII Music</i> <i>PLII Game</i> <i>PLIIx Movie</i> <i>PLIIx Music</i> <i>PLIIx Game</i>	<p><b>Dolby Pro Logic IIx</b> expands any 2-channel source for 7.1-channel playback. It provides a very natural and seamless surround-sound experience that fully envelops the listener. As well as music and movies, video games can also benefit from the dramatic spatial effects and vivid imaging.</p> <p>If you're not using any surround back speakers, <b>Dolby Pro Logic II</b> will be used instead of Dolby Pro Logic IIx.</p> <ul style="list-style-type: none"> <li>• <b>Dolby PLIIx Movie</b> Use this mode with any stereo or Dolby Surround (Pro Logic) movie (e.g., TV, DVD, VHS).</li> <li>• <b>Dolby PLIIx Music</b> Use this mode with any stereo or Dolby Surround (Pro Logic) music source (e.g., CD, radio, cassette, TV, VHS, DVD).</li> <li>• <b>Dolby PLIIx Game</b> Use this mode with video games, especially those that bear the Dolby Pro Logic II logo.</li> <li>• <b>Dolby PLIIx Movie</b></li> <li>• <b>Dolby PLIIx Music</b> These modes use the Dolby Pro Logic IIx modes to expand 5.1-channel sources for 7.1-channel playback.</li> </ul>	<b>STEREO</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b>
		<b>5.1ch</b> <b>D EX</b>	<b>7.1-SB</b>

Listening Mode	Description	Input Source	Speaker Layout
<b>Dolby Pro Logic IIz Height</b> <i>PLIIz Height</i>	<b>Dolby Pro Logic IIz Height</b> is designed to more effectively use existing program material when height channel speaker outputs are present. <b>Dolby Pro Logic IIz Height</b> can be used to upmix a variety of sources from movies and music, but are particularly well-suited to upmix game content.	<b>STEREO</b> <b>5.1ch</b> <b>7.1ch</b> <b>DTS-ES</b> <b>D EX</b>	<b>7.1-FH</b>
<b>Dolby EX</b> <i>Dolby EX</i> <i>Dolby D EX</i>	These modes expand 5.1-channel sources for 6.1/7.1-channel playback. They're especially suited to Dolby EX soundtracks that include a matrix-encoded surround back channel. The additional channel adds an extra dimension and provides an enveloping surround sound experience, perfect for rotating and fly-by sound effects.	<b>5.1ch</b> <b>D EX</b>	<b>7.1-SB</b>
<b>DTS Neo:6</b> <i>Neo:6 Cinema</i> <i>Neo:6 Music</i> <i>Neo:6</i>	This mode expands any 2-channel source for up to 7.1-channel playback. It uses seven full-bandwidth channels of matrix decoding for matrix-encoded material, providing a very natural and seamless surround sound experience that fully envelops the listener.	<b>STEREO</b>	<b>3.1</b> <b>5.1</b> <b>7.1</b>
	<ul style="list-style-type: none"> <li>• <b>DTS Neo:6 Cinema</b> Use this mode with any stereo movie (e.g., TV, DVD, VHS).</li> <li>• <b>DTS Neo:6 Music</b> Use this mode with any stereo music source (e.g., CD, radio, cassette, TV, VHS, DVD).</li> <li>• <b>DTS Neo:6</b> This mode uses DTS Neo:6 to expand 5.1-channel sources for 6.1/7.1-channel playback.</li> </ul>	<b>5.1ch</b> <b>D EX</b>	<b>7.1-SB</b>

Listening Mode	Description	Input Source	Speaker Layout
<b>Audyssey DSX<sup>®</sup></b> <i>Audyssey DSX</i>	<ul style="list-style-type: none"> <li> <b>Audyssey DSX</b>                      Audyssey DSX<sup>®</sup> is a scalable system that adds new speakers to improve surround impression. Starting with a 5.1 system Audyssey DSX first adds Wide channels for the biggest impact on envelopment. Research in human hearing has proven that information from the Wide channels is much more critical in the presentation of a realistic soundstage than the Back Surround channels found in traditional 7.1 systems. Audyssey DSX then creates a pair of Height channels to reproduce the next most important acoustical and perceptual cues. In addition to these new Wide and Height channels, Audyssey DSX applies Surround Envelopment Processing to enhance the blend between the front and surround channels.                 </li> </ul>	<b>5.1ch</b> <b>7.1ch</b> <b>DTS-ES</b> <b>DJEX</b>	<b>7.1-FH</b> <b>7.1-FW</b>
<i>PL II Movie DSX</i> <i>PL II Music DSX</i> <i>PL II Game DSX</i>	<ul style="list-style-type: none"> <li> <b>Dolby Pro Logic II Movie + Audyssey DSX</b> </li> <li> <b>Dolby Pro Logic II Music + Audyssey DSX</b> </li> <li> <b>Dolby Pro Logic II Game + Audyssey DSX</b> </li> </ul> The combination of Dolby Pro Logic II and Audyssey DSX modes can be used.	<b>STEREO</b>	<b>7.1-FH</b> <b>7.1-FW</b>

Listening Mode	Description	Input Source	Speaker Layout
<b>THX</b>  <i>THX Cinema</i> <i>THX Music</i> <i>THX Games</i>	Founded by George Lucas, THX develops stringent standards that ensure movies are reproduced in movie theaters and home theaters just as the director intended. THX Modes carefully optimize the tonal and spatial characteristics of the soundtrack for reproduction in the home-theater environment. They can be used with 2-channel matrixed and multichannel sources. Surround back speaker output depends on the source material and the selected listening mode.	<b>5.1ch</b> <b>7.1ch</b> <b>DTS-ES</b> <b>DJEX</b>	<b>5.1</b> <b>7.1</b>
	<ul style="list-style-type: none"> <li> <b>THX Cinema</b>                      THX Cinema mode corrects theatrical soundtracks for playback in a home theater environment. In this mode, THX Loudness Plus is configured for cinema levels and Re-EQ, Timbre Matching, and Adaptive Decorrelation are active.                 </li> <li> <b>THX Music</b>                      THX Music mode is tailored for listening to music, which is typically mastered at significantly higher levels than movies. In this mode, THX Loudness Plus is configured for music playback and only Timbre Matching is active.                 </li> <li> <b>THX Games</b>                      THX Games mode is meant for spatially accurate playback of game audio, which is often mixed similarly to movies but in a smaller environment. THX Loudness Plus is configured for game audio levels, with Timbre Matching active.                 </li> </ul>		



Listening Mode	Description	Input Source	Speaker Layout
	<ul style="list-style-type: none"> <li><b>Dolby Pro Logic II/IIx Movie + THX Cinema</b></li> <li><b>Dolby Pro Logic II/IIx Music + THX Music</b></li> <li><b>Dolby Pro Logic II/IIx Game + THX Games</b></li> </ul> <p>The combination of Dolby Pro Logic II/IIx<sup>7</sup> and THX Cinema/Music/Games modes can be used. The <b>PLII/PLIIx</b> and <b>THX</b> indicators light on the AV receiver's display.</p>	<b>STEREO</b>	<b>5.1</b>   <b>7.1</b>
	<ul style="list-style-type: none"> <li><b>Dolby Pro Logic IIx Movie + THX Cinema</b></li> <li><b>Dolby Pro Logic IIx Music + THX Music</b></li> </ul> <p>The combination of Dolby Pro Logic IIx and THX Cinema/Music modes can be used. The <b>PLIIx</b> and <b>THX</b> indicators light on the AV receiver's display.</p>	<b>5.1ch</b> <b>DJEX</b>	<b>7.1-SB</b>
	<ul style="list-style-type: none"> <li><b>Dolby Pro Logic IIz Height + THX Cinema</b></li> <li><b>Dolby Pro Logic IIz Height + THX Music</b></li> <li><b>Dolby Pro Logic IIz Height + THX Games</b></li> </ul> <p>The combination of Dolby Pro Logic IIz Height and THX Cinema/Music/Games modes can be used. The <b>PLIIz</b> and <b>THX</b> indicators light on the AV receiver's display.</p>	<b>STEREO</b> <b>5.1ch</b> <b>7.1ch</b> <b>DTS-ES</b> <b>DJEX</b>	<b>7.1-FH</b>
	<ul style="list-style-type: none"> <li><b>DTS Neo:6 Cinema + THX Cinema</b></li> <li><b>DTS Neo:6 Music + THX Music</b></li> </ul>	<b>STEREO</b>	<b>5.1</b>   <b>7.1</b>
	<ul style="list-style-type: none"> <li><b>DTS Neo:6 + THX Cinema</b></li> <li><b>DTS Neo:6 + THX Music</b></li> <li><b>DTS Neo:6 + THX Games</b></li> </ul> <p>The combination of DTS Neo:6 and THX Cinema/Music/Games modes can be used. The <b>Neo:6</b> and <b>THX</b> indicators light on the AV receiver's display.</p>	<b>5.1ch</b> <b>DJEX</b>	<b>7.1-SB</b>

Listening Mode	Description	Input Source	Speaker Layout
<p><i>THX S2 Cinema</i></p> <p><i>THX S2 Music</i></p> <p><i>THX S2 Games</i></p>	<ul style="list-style-type: none"> <li><b>THX Select2 Cinema</b></li> </ul> <p>THX Select2 Cinema mode plays 5.1 movie using 8 speakers giving you the best possible movie watching experience. In this mode, THX ASA processing blends the side surround speakers and back surround speakers providing the optimal mix of ambient and directional surround sounds.</p> <ul style="list-style-type: none"> <li><b>THX Select2 Music</b></li> </ul> <p>For the replay of multichannel music, the THX Select2 Music should be selected. In this mode, THX ASA processing is applied to the surround channels of all 5.1 encoded music sources such as DTS, Dolby Digital, DVD-Audio, etc. to provide a wide and stable rear soundstage.</p> <ul style="list-style-type: none"> <li><b>THX Select2 Games</b></li> </ul> <p>For the replay of stereo and multichannel game audio, the THX Select2 Games mode should be selected. In this mode, THX ASA processing is applied to the surround channels of all 5.1 and 2.0 encoded game sources such as analog, PCM, DTS, and Dolby Digital. This accurately places all game audio surround information creating a full 360 degree playback environment. THX Select2 Games is unique as it gives you a smooth transition of audio in all points of the surround field.</p>	<b>5.1ch</b> <b>DJEX</b>	<b>7.1-SB</b>
	<ul style="list-style-type: none"> <li><b>Dolby Pro Logic II Game + THX Select2 Games</b></li> </ul> <p>The combination of Dolby Pro Logic II Game and THX Select2 Games modes can be used. The <b>PLII</b> and <b>THX</b> indicators light on the AV receiver's display.</p>	<b>STEREO</b>	<b>7.1-SB</b>



Listening Mode	Description	Input Source	Speaker Layout
THX Surr EX	<ul style="list-style-type: none"> <li>• <b>THX Surround EX</b></li> </ul> <p>This mode expands 5.1-channel sources for 6.1/7.1- channel playback. It's especially suited to Dolby Digital EX sources. THX Surround EX, also known as Dolby Digital Surround EX, is a joint development between Dolby Laboratories and THX Ltd.</p>	<p>5.1ch Dolby Digital EX</p>	<p>7.1-SB</p>

**Note**

- \*1 Pure Audio cannot be selected when Zone 2/3 is active. Besides, if you activate Zone 2/3 while Pure Audio is selected, the listening mode will automatically switch to Direct.
- \*2 Based on the audio channel signal contained in the source, the corresponding speakers will output the sound.
- \*3 The AV receiver can input the DSD signal from HDMI IN. Depending on the player, setting the output on the player side to PCM might bring better sound.
- \*4 For the Blu-ray Discs, Dolby Digital is used in a 3.1/5.1-channel speaker system.
- \*5 DTS is used depending on the configuration of the AV receiver.
- \*6 If there are no surround back speakers, DTS is used.
- \*7 If there are no surround back speakers, Dolby Pro Logic II is used.
- \*8 This listening mode can be selected only when all the following conditions are satisfied:
  - Center speaker is connected.
  - Either the front high or front wide speakers are connected.





## Dialogue Normalization

Dialogue Normalization (DialogNorm) is a feature of Dolby Digital, which is used to keep the programs at the same average listening level so the user does not have to change the volume control between Dolby Digital, Dolby Digital Plus and Dolby TrueHD programs. When playing back software which has been encoded in Dolby Digital, Dolby Digital Plus and Dolby TrueHD, sometimes you may see a brief message in the front panel display which will read “**DialogNorm: X dB**” (X being a numeric value). The display is showing how the program level relates with THX calibration level. If you want to play the program at calibrated theatrical levels, you may wish to adjust the volume. For example, if you see the following message: “**DialogNorm: + 4 dB**” in the front panel display, to keep the overall output level at THX calibrated loudness, just turn down the volume control by 4 dB. However, unlike a movie theater where the playback loudness is preset, you can choose your preferred volume setting for best enjoyment.

## THX Cinema Processing

THX is an exclusive set of standards and technologies established by the world-renowned film production company Lucasfilm Ltd. THX grew from George Lucas’ personal desire to make your experience of the film soundtrack in both movie theaters and in your home theater as faithful as possible to what the director intended.

Movie soundtracks are mixed in special environments called dubbing stages and are designed to be played back in movie theaters with similar equipment and conditions. Most of those soundtracks are remixed using flat response loudspeakers similar to those used in the small home theater environment before being transferred onto Blu-ray Discs, DVD, etc.

THX engineers developed patented technologies to accurately translate the sound from the movie theater environment into the home, correcting the tonal and

spatial errors that occur. On this product, when the THX indicator is on, THX features are automatically added in Cinema modes (e.g. THX Cinema, THX Surround EX).

## Timbre Matching

The human ear changes our perception of a sound depending on the direction from which the sound is coming. In a movie theater, there is an array of surround speakers so that the surround information is all around you. In a home theater, you may only have two speakers located to the side of your head. In this case, the Timbre Matching feature filters the information going to the surround speakers so that they more closely match the tonal characteristics of the sound coming from the front speakers. This ensures seamless panning between the front and surround speakers.

## Adaptive Decorrelation

In a movie theater, a large number of surround speakers help create an enveloping surround sound experience. If a home theater only has two sidewall surround speakers, the surround speakers may sound similar to headphones lacking spaciousness and envelopment. Surround sounds will also collapse toward the closet speaker as you move away from the middle seating position. Adaptive Decorrelation slightly changes one surround channel’s time and phase relationship with respect to the other surround experience as in a movie theater using only two speakers.

## ASA (Advanced Speaker Array)

ASA is a proprietary THX technology which processes the audio on the two side and two back surround speakers for the optional surround sound experience. When you set up your home theater system using eight speaker outputs (Left, Center, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left, and Subwoofer),

be sure to go to the THX Audio Setup screen and choose the setting that closely corresponds to the back speaker spacing (→ [page 66](#)). This will re-optimize the surround sound field.

ASA is used in four modes: THX Select2 Cinema, THX Select2 Music, THX Select2 Games and Dolby Pro Logic II + THX Select2 Games.

The listening mode may not be selected depending on the input signal. The signal input from the external AV components can be displayed by the function on the next page.

## Displaying Source Information

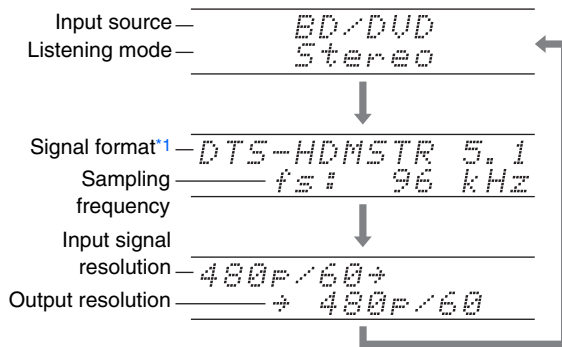
You can display various information about the current input source as follows.

- 1 Press **RECEIVER** once followed by **DISPLAY** repeatedly to cycle through the available information.

### Tip

- Alternatively, you can use **DISPLAY** on the AV receiver.

The following information can be typically displayed.



\*1 If the input signal is digital, the signal format is displayed.

## Using the Sleep Timer

With the sleep timer, you can set the AV receiver to turn off automatically after a specified period.

- 1 Press **RECEIVER** once followed by **SLEEP** repeatedly to select the required sleep time. The sleep time can be set from 90 to 10 minutes in 10 minute steps. The **SLEEP** indicator lights on the AV receiver's display when the sleep timer has been set. The specified sleep time appears for about 5 seconds, then the previous display reappears.

### Tip

- If you need to cancel the sleep timer, press **SLEEP** repeatedly until the **SLEEP** indicator goes off.
- To check the time remaining until the AV receiver sleeps, press **SLEEP**. Note that if you press again on **SLEEP** as the time being displayed is 10 minutes or less, the sleep timer will go off.

## Setting the Display Brightness

You can adjust the brightness of the AV receiver's display, and switch the **MASTER VOLUME** indicator off and on in conjunction.

- 1 Press **RECEIVER** once followed by **DIMMER** repeatedly to cycle through the following patterns:
  - Normal brightness + indicator off.
  - Dim brightness + indicator off.
  - Dimmer brightness + indicator off.
  - Normal brightness + indicator on (default).

### Tip

- **(North American models)** Alternatively, you can use **DIMMER** on the AV receiver.

## Changing the Input Display

When you connect an **RI**-capable Onkyo component, you must configure the input display so that **RI** can work properly.

This setting can be done only from the front panel.

### 1 Press TV/CD or GAME1.

“TV/CD” or “GAME1” appears on the AV receiver’s display.

### 2 Press and hold down the same button (about 3 seconds) to change the input display.

Repeat this step to select the desired input display.

■ **TV/CD:**      TV/CD → DOCK  
                          ↑      TAPE      ↓

■ **GAME1:**      GAME1 ↔ DOCK

#### Note

- “DOCK” can be selected for the “TV/CD” or “GAME1” input selector, but not at the same time.
- Enter the appropriate remote control code before using the remote controller for the first time (→ [page 83](#)).

## Muting the AV Receiver

You can temporarily mute the output of the AV receiver.

### 1 Press RECEIVER followed by MUTING.

The output is muted and the **MUTING** indicator flashes on the AV receiver’s display.

#### Tip

- To unmute, press **MUTING** again or adjust the volume.
- Muting is automatically cancelled when the AV receiver is set to standby.

## Selecting Speaker Layout

You can set which speakers you want to use by priority.

### 1 Press RECEIVER followed by SP (speaker layout) repeatedly to select:

#### ▶ Speaker Layout:FH:

The sound from front high speakers is output by priority.

#### ▶ Speaker Layout:FW:

The sound from front wide speakers is output by priority.

#### ▶ Speaker Layout:SB:

The sound from surround back speakers is output by priority.

#### Note

- This setting is not available in either of the following cases:
  - The “**Speakers Type(Front)**” setting is set to “**Bi-Amp**”.
  - The “**Powered Zone 2**” setting is set to “**Yes**” and Zone 2 is turned on.
- Playback conditions may be limited depending on the settings in “Speaker Settings” (→ [page 63](#)) and “Speaker Configuration” (→ [page 64](#)).
- When a listening mode which doesn’t support front high, front wide or surround back speakers is used, this setting cannot be selected.

## Using the Whole House Mode

The Whole House Mode is useful when you want to add extra background music to your home party; this allows you to enjoy the same stereo music as the main room in separate rooms (Zone 2/3).

The Whole House Mode selects the same input source for Multi Zone as the main room’s.

See also:

- “2. Speaker Setup” (→ [page 63](#))
- “Multi Zone” (→ [page 79](#))

### 1 Press WHOLE HOUSE MODE on the front panel.

To cancel the Whole House Mode, change the input source for the main room or select a listening mode (→ [page 44](#)).

#### Note

- The Whole House Mode only supports analog audio and audio from **NET** or **USB** input selector.
- To adjust the volume of Multi Zone, switch the AV receiver to Multi Zone control. See “Adjusting the Volume for Zone 2” (→ [page 80](#)) for the volume adjustment of Multi Zone.
- The Whole House Mode is not available in either of the following cases:
  - The “**Audio TV Out (Main)**” setting is set to “**On**” (→ [page 75](#)) or “**Audio TV Out (Sub)**” setting is set to “**On**” (→ [page 75](#)) and you’re listening through your TV speakers.
  - “**HDMI CEC (RIHD)**” is set to “**On**” (→ [page 74](#)) and you’re listening through your TV speakers.
  - a pair of headphones is connected.



## Using Easy Macros

By using **ACTIVITIES** in Easy macro mode, you can sequentially operate Onkyo components via simple commands from a single-button press.

These commands are user-definable. See “Using Normal Macros” (→ [page 90](#)).

### 1 Press **ACTIVITIES (MY MOVIE, MY TV, or MY MUSIC)** to start the Easy macro command.

The default sequences of actions are described below.

To change the related source component, see “Changing the Source Components” shown later in this chapter.

#### ■ **MY MOVIE**

First, the TV, the Onkyo Blu-ray Disc player, and the AV receiver are turned on. The input selector is set to “**BD/DVD**”. Finally the player starts playback.<sup>\*1</sup>

<sup>\*1</sup> Depending on the start-up time of your Blu-ray Disc/DVD player, the AV receiver may not activate this playback command. In this case, press **▶** on the remote controller.

#### ■ **MY TV**

First, the TV, the cable set-top box, and the AV receiver are turned on. Then the input selector is set to “**CBL/SAT**”.

#### ■ **MY MUSIC**

The Onkyo CD player and the AV receiver are turned on. The input selector is set to “**TV/CD**”. Finally, the player starts playback.

#### Note

- While the Easy Macro command is being processed, you cannot use other **ACTIVITIES**. If you want to operate other components, first press **ALL OFF** and use the desired **ACTIVITIES**.

## Turning Off the Components

This button turns off all components activated by the Easy Macro mode.

### 1 Press **ALL OFF**.

First, the related components stop and turn off. Second, the AV receiver turns off. Finally, the TV turns off (or enters standby mode).<sup>\*1\*2</sup>

<sup>\*1</sup> This step doesn't apply to **MY MUSIC**, with the default settings.

<sup>\*2</sup> With some televisions, the power may not be turned off (or enter standby mode).

## Changing the Source Components

You can change the source components activated by the Easy Macro mode.

### 1 While holding down **REMOTE MODE** for the playback component you wish to assign, press and hold down the **ACTIVITIES to be changed (MY MOVIE, MY TV, or MY MUSIC)** (about 3 seconds).

**ACTIVITIES** flashes twice, indicating that the change is complete.

#### Examples:

If you wished to use **MY MUSIC** to start the Onkyo CD player, you would press and hold down **MY MUSIC** (about 3 seconds) while holding down **TV/CD** until it flashes twice.

## Restoring Default

You can restore **ACTIVITIES** to the default settings.

### 1 While holding down **HOME**, press and hold down **ALL OFF** until **ALL OFF** lights (about 3 seconds).

### 2 Release **HOME** and **ALL OFF**, and press **ALL OFF** again.

**ALL OFF** flashes twice.

## Using the Home Menu

The Home menu provides quick access to frequently used menus.

### Tip

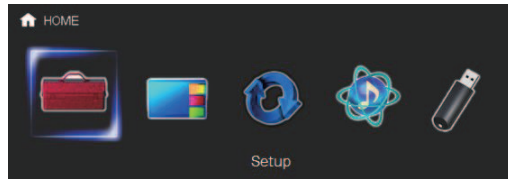
- The on-screen menus appear only on a TV that is connected to **HDMI OUT MAIN**.

### 1 Press RECEIVER followed by HOME.

The Home menu will be superimposed on the TV screen.

### Tip

- Alternatively, you can use **HOME** on the AV receiver.



### 2 Use ◀/▶ or ▲/▼ and ENTER to make the desired selection.

Press **HOME** to close the menu.

#### ■ Setup

- ▶ With this selection, you can access the common settings of the on-screen Setup menu.

Press **ENTER** to display the Setup menu (→ [page 60](#)).

### Tip

- You can also access frequently used settings from Quick Setup (→ [page 56](#)).

#### ■ InstaPrevue

- ▶ With this selection, you can preview audio/video streams coming from HDMI inputs (**HDMI IN 1/2/3/4/AUX INPUT**). Even with multiple

components connected through HDMI, you can easily switch between inputs as their previews are displayed on a single screen.

Press **ENTER** to display the main preview (currently selected HDMI input) and the additional previews (other HDMI inputs). Using ▲/▼ or ◀/▶ to select a preview thumbnail and pressing **ENTER** will switch the AV receiver to that input source.

### Tip

- If no video signals are present, the thumbnails will be filled in black.
- You can specify the number of preview thumbnails as well as their positioning on screen (→ [page 76](#)).

### Note

- This function cannot be selected when:
  - **HDMI IN 5/6/7** is the current HDMI input source, or
  - No signal is present on the current input source.
- Depending on video signals, the picture may not be properly rendered on the preview thumbnails of InstaPrevue.

#### ■ Firmware Update

- ▶ With this selection, you can update the firmware of the AV receiver. Note that this selection will be grayed out for a short while after the AV receiver is turned on. Please wait until it becomes operable.

Press **ENTER** to start the procedure (→ [page 99](#)).

#### ■ Network Service

You need to connect the AV receiver to your home network (→ [pages 19, 30](#)).

- ▶ With this selection, you can use various Internet radio services or play the contents stored in media connected to your home network (→ [pages 35 to 39](#)). Note that this selection will be grayed out for

a short while after the AV receiver is turned on. Please wait until it becomes operable.

Press **ENTER** to display the network service screen. If you want to use the Internet radio services, use ▲/▼/◀/▶ to select the desired service. Pressing **ENTER** again switches to that selection. If you want to play music files on a computer or media server, use ▲/▼/◀/▶ to select “**DLNA**” and then press **ENTER**. If you want to play music files on a computer or NAS (Network Attached Storage), use ▲/▼/◀/▶ to select “**Home Media**” and then press **ENTER**.

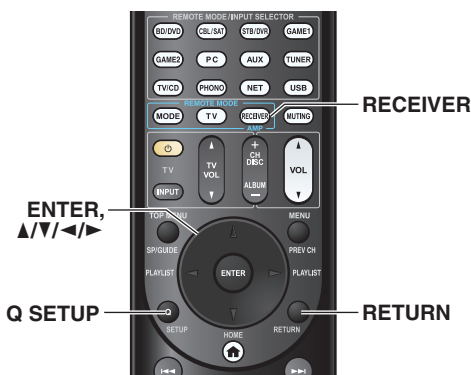
#### ■ USB

- ▶ With this selection, you can play contents of portable players and USB storage devices connected to the AV receiver’s **USB** port (→ [page 35](#)). Note that this selection will be grayed out for a short while after the AV receiver is turned on. Please wait until it becomes operable.

Press **ENTER** to select a drive or browse the contents of the media connected, followed by ▲/▼ to select the desired folder or track. Pressing **ENTER** as a track is selected will start playback.

# Advanced Operations

## Using the Quick Setup

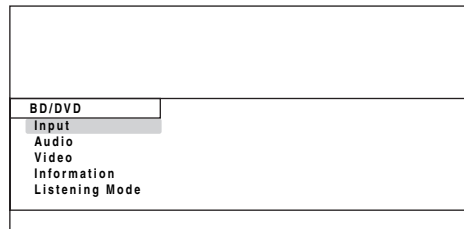


### 1 Press RECEIVER followed by Q SETUP.

The Quick Setup will be superimposed on the TV screen.

#### Tip

- Alternatively, you can use **QUICK SETUP** on the AV receiver.



### 2 Use ▲/▼ and ENTER to make the desired selection.

Press **Q SETUP** to close the menu.

Press **RETURN** to return to the previous menu.

#### ■ Input\*1

▶ You can select input sources and view the following information: the name of input selectors, input assignments, the name of the device paired with the AV receiver via Bluetooth, radio information, and ARC function setting.

In addition, previews of the video streams coming from HDMI inputs (**HDMI IN 1/2/3/4/AUX INPUT**) are displayed.\*2

Use ▲/▼ to select an input source and view the related information. Pressing **ENTER** switches to the selected input source.

#### ■ Audio (→ page 57)

▶ You can change the following settings: “**Bass**”, “**Treble**”, “**Phase Matching Bass**”, “**Subwoofer Level**”, “**Center Level**”, “**Audyssey**”, “**Dynamic EQ\*3**”, “**Dynamic Volume\*3**”, “**Late Night**”, “**Music Optimizer**”, “**Re-EQ**” and “**Re-EQ(THX)**”.

#### ■ Video\*4

▶ You can change the following settings: “**Wide Mode**” and “**Picture Mode\*5**”.

See also:

- “**Picture Adjust**” (→ page 71)

#### ■ Information\*6

▶ You can view the information of the following items: “**Audio**”, “**Video**” and “**Tuner**”.

#### ■ Listening Mode\*7

▶ You can select the listening modes that are grouped in the following categories: “**MOVIE/TV**”, “**MUSIC**”, “**GAME**”, and “**THX**”.

Use ▲/▼ to select the category and ◀/▶ to select the listening mode. Press **ENTER** to switch to the selected listening mode.

#### Note

\*1 “**BLUETOOTH**” cannot be selected, if you’ve selected **NET** or **USB** as input selector in Multi Zone.

## On-screen Setup

This section describes the procedure for using the remote controller unless otherwise specified.

With the AV receiver connected to a TV, there are two ways of changing the settings on-screen: using the Quick Setup or the Setup Menu (**HOME**).

#### ■ Quick Setup

The Quick Setup provides quick access to frequently used settings. You can change settings and view the current information.

#### ■ Setup menu (HOME)

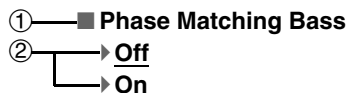
The Setup menu (**HOME**) provides a convenient way to change the AV receiver’s various settings. Settings are organized into 9 categories.

#### Tip

- The on-screen menus appear only on a TV that is connected to **HDMI OUT MAIN**.

- \*2 • The video preview is not displayed when:
  - **HDMI IN 5/6/7** is the current HDMI input source, or
  - No signal is present on the current input source.
- The video of the currently-selected input is displayed on the main screen, not on a preview thumbnail.
- \*3 • “**Dynamic EQ**” and “**Dynamic Volume**” cannot be selected when any of the THX listening modes is selected, with “**Loudness Plus**” set to “**On**” or “**Preserve THX Settings**” set to “**Yes**” (→ [page 66](#)).
- \*4 • When the “**Monitor Out**” setting is set to “**Sub**”, “**Video**” cannot be selected (→ [page 61](#)).
  - This setting cannot be used with the **NET**, **USB** and **BLUETOOTH** input selectors.
- \*5 Only when you have selected “**Custom**” in the “**Picture Mode**” (→ [page 71](#)), pressing **ENTER** allows you to adjust the following items via the Quick Setup: “**Brightness**”, “**Contrast**”, “**Hue**” and “**Saturation**”. Press **RETURN** to return to the “**Picture Mode**” setting.
- \*6 Depending on the input source and listening mode, not all channels shown here output the sound.
- \*7 • This setting is not available in either of the following cases:
  - The “**Audio TV Out (Main)**” setting is set to “**On**” (→ [page 75](#)) or “**Audio TV Out (Sub)**” setting is set to “**On**” (→ [page 75](#)) and you’re listening through your TV speakers.
  - “**HDMI CEC (RIHD)**” is set to “**On**” (→ [page 74](#)) and you’re listening through your TV speakers.

## Explanatory Notes



- ① Setting target
- ② Setting options (default setting underlined)

## Using the Audio Settings of Quick Setup

You can change various audio settings from the Quick Setup (→ [page 56](#)).

### Note

- These settings are not available in either of the following cases:
  - The “**Audio TV Out (Main)**” setting is set to “**On**” (→ [page 75](#)) or “**Audio TV Out (Sub)**” setting is set to “**On**” (→ [page 75](#)) and you’re listening through your TV speakers.
  - “**HDMI CEC (RIHD)**” is set to “**On**” (→ [page 74](#)) and you’re listening through your TV speakers.

## Tone Control

### ■ Bass

▶ **-10dB** to **0dB** to **+10dB** in 2 dB steps.

You can boost or cut low-frequency sounds output from the front speakers.

### ■ Treble

▶ **-10dB** to **0dB** to **+10dB** in 2 dB steps.

You can boost or cut high-frequency sounds output from the front speakers.

You can adjust the bass and treble for the front speakers, except when the Direct, Pure Audio or THX listening mode is selected.

### Operating on the AV receiver

- 1** Press **TONE** repeatedly to select either “**Bass**” or “**Treble**”.
- 2** Use **-** and **+** to adjust.

## Phase Matching Bass

### ■ Phase Matching Bass

▶ Off

▶ On

From the warm low notes produced by a cello to the deep frequencies of electronic music, a good audio system should be able to deliver plenty of bass resonance.

While traditional enhancement systems effectively boost low-frequency sound, they are often prone to the effects of phase shifting, which can overwhelm mid-range frequencies and muddy the sound. Our Phase-Matching Bass Boost technology effectively preserves mid-range clarity-allowing vocals and strings to shine-while maintaining a smooth, powerful bass response at all volume levels.

### Note

- The Phase Matching Bass is disabled when the Direct, Pure Audio, or THX listening mode is selected.
- If the “**Subwoofer**” setting is set to “**No**”, this setting is fixed to “**Off**”.

### Operating on the AV receiver

- 1** Press **TONE** repeatedly to select “**Phase Matching Bass**”.
- 2** Use **-** and **+** to change the setting.





## Speaker Levels

### ■ Subwoofer Level

▶ **-15.0dB** to **0.0dB** to **+12.0dB** in 0.5 dB steps.

### ■ Center Level

▶ **-12.0dB** to **0.0dB** to **+12.0dB** in 0.5 dB steps.

You can adjust the volume of each speaker while listening to an input source.

These temporary adjustments are cancelled when the AV receiver is set to standby. To save the setting you made here, go to “Level Calibration” (→ [page 65](#)) before setting the AV receiver to standby.

#### Note

- You cannot use these function while the AV receiver is muted.
- These settings cannot be used while a pair of headphones is connected.
- Speakers that are set to “No” or “None” in “Speaker Configuration” (→ [page 64](#)) cannot be adjusted.

## Audyssey®

### ■ Audyssey

See “Audyssey” in “4. Source Setup” (→ [page 68](#)).

### ■ Dynamic EQ

See “Dynamic EQ” in “4. Source Setup” (→ [page 69](#)).

### ■ Dynamic Volume

See “Dynamic Volume” in “4. Source Setup” (→ [page 69](#)).

#### Note

- These technologies can be used when all the following conditions are met:
  - Room Correction and Speaker Setup is completed. Note that “Audyssey” requires the “**Audyssey MultEQ Full Calibration**” method.
  - Any listening mode other than Direct or Pure Audio is selected.
  - A pair of headphones is not connected.

- The setting is stored individually for each input selector.
- “**Dynamic EQ**” and “**Dynamic Volume**” cannot be selected when any of the THX listening modes is selected, with “**Loudness Plus**” set to “On” or “**Preserve THX Settings**” set to “Yes” (→ [page 66](#)).

## Late Night

### ■ Late Night

For **Dolby Digital** and **Dolby Digital Plus** sources, the options are:

#### ▶ Off

#### ▶ Low:

Small reduction in dynamic range.

#### ▶ High:

Large reduction in dynamic range.

For **Dolby TrueHD** sources, the options are:

#### ▶ Auto:

The Late Night function is set to “On” or “Off” automatically.

#### ▶ Off

#### ▶ On

Turn this setting on to reduce the dynamic range of Dolby Digital material so that you can still hear quiet parts even when listening at low volume levels—ideal for watching movies late at night when you don’t want to disturb anyone.

#### Note

- The effect of the Late Night function depends on the material that you are playing and the intention of the original sound designer, and with some material there will be little or no effect when you select the different options.
- The Late Night function can be used only when the input source is Dolby Digital, Dolby Digital Plus, or Dolby TrueHD.
- The Late Night function is set to “Off” when the AV receiver is set to standby. For Dolby TrueHD sources, it will be set to “Auto”.

- With Dolby TrueHD sources, the Late Night function cannot be used when “**TrueHD Loudness Management**” is set to “Off”.

## Music Optimizer

### ■ Music Optimizer

#### ▶ Off

#### ▶ On

The Music Optimizer function enhances the sound quality of compressed music files. When set to “On”, the **M.Opt** indicator lights on the AV receiver’s display.

#### Note

- The Music Optimizer function only works with PCM digital audio input signals with a sampling rate below 48 kHz and analog audio input signals. When **NET** or **USB** input selector is selected, this function even works with digital audio input signals with a sampling rate below 48 kHz (except DSD signals and Dolby TrueHD signals) regardless of the PCM digital audio input signals with a sampling rate below 48 kHz.
- The Music Optimizer is disabled when the Direct or Pure Audio listening mode is selected.
- The setting is stored individually for each input selector.



## Re-EQ (Re-Equalization)

---

Movie soundtracks were designed for playback in large movie theaters using professional equipment. If the movies were not remixed for the home theater, the tonal balance of the soundtracks can be excessively bright and harsh when played back over home audio equipment. In those instances, Re-Equalization restores the correct tonal balance for listening to a movie soundtrack in a smaller home environment.

### ■ Re-EQ

▶ Off

▶ On

This function can be used with the following listening modes: Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Multichannel, DTS, DTS-HD High Resolution Audio, DTS-HD Master Audio, DTS Express, DSD, Dolby EX, Dolby Pro Logic IIz Height, Dolby PLIIx Movie, DTS Neo:6 Cinema and 5.1-channel source + Neo:6.

### ■ Re-EQ(THX)

▶ Off

▶ On

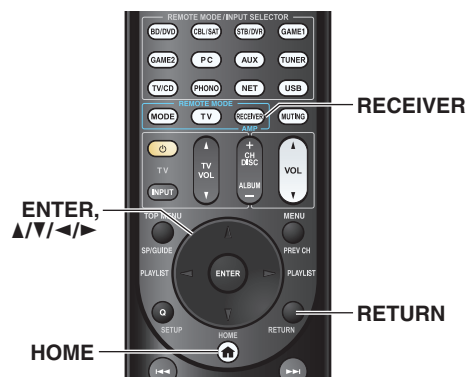
This function can be used with the following listening modes: THX Cinema, THX Surround EX, and THX Select2 Cinema.

#### Note

- These settings cannot be used while a pair of headphones is connected.



## Using the Setup Menu (HOME)



- 1 Press **RECEIVER** followed by **HOME**.
- 2 Use **◀/▶** or **▲/▼** to select “Setup”, and then press **ENTER**.
- 3 Use **▲/▼** to select a main menu item, and then press **ENTER**.
- 4 Use **▲/▼** to select a sub menu item, and then press **ENTER**.
- 5 Use **▲/▼** to select a setting target, and use **◀/▶** to change the setting.  
Press **HOME** to close the menu.  
Press **RETURN** to return to the previous menu.

### Note

- This procedure can also be performed on the AV receiver by using **HOME**, the cursor and enter (middle) buttons.
- During Audyssey MultEQ® Room Correction and Speaker Setup, messages, etc., that are displayed on the TV screen will appear on the AV receiver's display.

## Setup Menu Items

Main menu item	Sub menu item
1. Input/Output Assign (→ page 61)	Monitor Out
	HDMI Input
	Component Video Input
	Digital Audio Input
2. Speaker Setup (→ page 63)	Speaker Settings
	Speaker Configuration
	Speaker Distance
	Level Calibration
	Equalizer Settings
	THX Audio Setup
3. Audio Adjust (→ page 67)	Multiplex/Mono
	Dolby
	DTS
	Audyssey DSX
	Theater-Dimensional
	LFE Level
4. Source Setup (→ page 68)	Audyssey
	IntelliVolume
	A/V Sync
	Name Edit
	Picture Adjust
	Audio Selector

Main menu item	Sub menu item
5. Listening Mode Preset (→ page 73)	BD/DVD
	CBL/SAT
	STB/DVR
	GAME1
	GAME2
	PC
	AUX
	TUNER
	TV/CD
	PHONO
6. Miscellaneous (→ page 73)	NET
	USB
	BLUETOOTH
7. Hardware Setup (→ page 74)	Volume Setup
	OSD Setup
8. Remote Controller Setup (→ page 78)	Tuner
	HDMI
	Auto Standby
	Network
	Initial Setup
9. Lock Setup (→ page 78)	Remote ID
	Remote Mode Setup
9. Lock Setup (→ page 78)	Setup

## Explanatory Notes

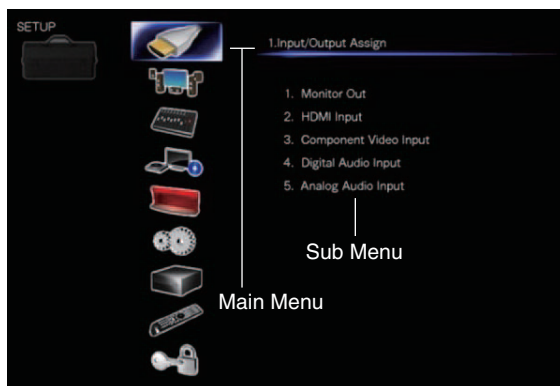
### ① 2. Speaker Setup

### ② Speaker Configuration

### ③ Subwoofer

- ④  Yes  
 No

- ① Main Menu  
 ② Sub Menu  
 ③ Setting target  
 ④ Setting options (default setting underlined)

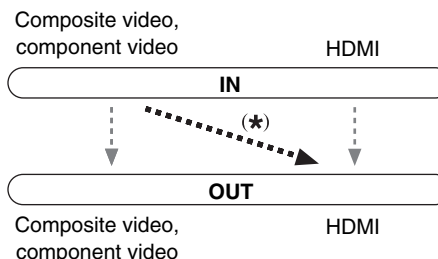


## 1. Input/Output Assign

### Monitor Out

On the “**Monitor Out**” settings, you can select whether or not to have the video sources’ images output through the HDMI output.

If you connect your TV to HDMI output, “**Monitor Out**” setting is automatically set and composite video and component video sources are upconverted\* and output.



#### Note

- See “The video and audio signal flow” (→ [page 20](#)) for charts showing how the “**Monitor Out**” and “**Resolution**” settings affect the video signal flow through the AV receiver.

#### Monitor Out

##### ▶ Main:

Select this if your TV is connected to **HDMI OUT MAIN**.

##### ▶ Sub:

Select this if your TV is connected to **HDMI OUT SUB**.

##### ▶ Both:

Select this if your TVs are connected to **HDMI OUT MAIN** and **HDMI OUT SUB**. Video signals are output from both HDMI outputs at the resolution supported by both TVs.

#### Note

- The “**HDMI Through**” setting is only available for the **HDMI OUT MAIN** jack (→ [page 75](#)).

#### Changing the “Monitor Out” setting manually

- 1 Press **MONITOR OUT** on the front panel.  
The current setting is displayed.

Monitor Out  
# Main

- 2 Press **MONITOR OUT** on the AV receiver repeatedly to select:

- ▶ **Main, Sub** or **Both**.

#### Resolution

##### ▶ Through:

Select this to pass video through the AV receiver at the same resolution and with no conversion.

##### ▶ Auto:

Select this to have the AV receiver automatically convert video at resolutions supported by your TV.

##### ▶ 480p (480p/576p), 720p, 1080i, 1080p\*1:

Select the desired output resolution.

##### ▶ 4K:

Select this for an output resolution four times that of 1080p. Depending on the resolution supported by your TV, it will result in either 3840 × 2160 or 4096 × 2160 pixels.

You can specify the output resolution for **HDMI OUT MAIN** and have the AV receiver upconvert the picture resolution as necessary to match the resolution supported by your TV.



**Tip**

- You can see the picture by pressing **ENTER** to check the “**Resolution**” setting for **HDMI OUT MAIN** (excluding **NET**, **USB** and **BLUETOOTH** input source).

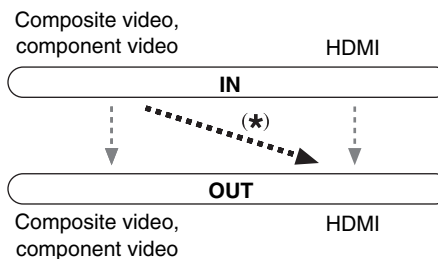
**Note**

- With some TVs, video signals are processed in the same way as “**Through**” when this setting is set to “**4K**”.
  - If the “**Monitor Out**” setting is set to “**Sub**”, this setting is fixed to “**Through**”.
  - If the “**Monitor Out**” setting is set to “**Both**”, this setting is fixed to “**Auto**”.
  - For optimum video performance, THX recommends using the HDMI output and setting the video resolution to “**Through**”.
- \*1 When signal is 1080p input at 24 frames per second, it will be 1080p output at 24 frames per second.

**HDMI Input**

If you connect a video component to an HDMI input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to **HDMI IN 2**, you must assign “**HDMI2**” to the “**BD/DVD**” input selector.

If you’ve connected your TV to the AV receiver with an HDMI cable, composite video and component video sources can be upconverted\* and output by the HDMI output. You can set this for each input selector by selecting the “- - - -” option. See “The video and audio signal flow” for more information on video signal flow and upconversion (→ [page 20](#)).



Here are the default assignments.

Input selector	Default assignment
<b>BD/DVD</b>	<b>HDMI1</b>
<b>CBL/SAT</b>	<b>HDMI2</b>
<b>STB/DVR</b>	<b>HDMI3</b>
<b>GAME1</b>	<b>HDMI4</b>
<b>GAME2</b>	<b>HDMI5</b>
<b>PC</b>	<b>HDMI6</b>
<b>AUX</b>	<b>Front/MHL (Fixed)</b>
<b>TV/CD</b>	- - - -
<b>PHONO</b>	- - - -

### ■ **BD/DVD, CBL/SAT, STB/DVR, GAME1, GAME2, PC, TV/CD, PHONO**

#### ▶ **HDMI1, HDMI2, HDMI3, HDMI4, HDMI5, HDMI6, HDMI7:**

Select the input to which the component has been connected.

#### ▶ **- - - -:**

Output composite video and component video sources from the HDMI output. The video output signal from the HDMI output is the one configured in “Component Video Input”.

Each HDMI input cannot be assigned to two input selectors or more. When **HDMI1 - HDMI7** have already been assigned, you must first set any unused input selectors to “- - - -” or you will be unable to assign **HDMI1 - HDMI7** to other input selectors.

**Note**

- If no video component is connected to the HDMI input (even if the HDMI input is assigned), the AV receiver selects the video source based on the setting of “Component Video Input”.
- When an **HDMI IN** is assigned to an input selector as explained here, the same **HDMI IN** will be set as a priority in the “**Digital Audio Input**”. In this case, if you want to use the coaxial or optical audio input, make the appropriate selection in the “**Audio Selector**” setting (→ [page 72](#)).
- Do not assign an **HDMI IN** to the **TV/CD** selector while “**HDMI CEC (RIHD)**” is set to “**On**” (→ [page 74](#)), otherwise appropriate CEC (Consumer Electronics Control) operation will not be guaranteed.
- If you assign “- - - -” to an input selector that is currently selected in “**HDMI Through**” (→ [page 75](#)), the “**HDMI Through**” setting will be automatically switched to “**Off**”.
- “**AUX**” is used only for input from the front panel.
- In order for the AV receiver to upconvert component input to HDMI output, the source output must be set to 480i/576i. When signal is input at resolution of 480p/576p and more, error message will be displayed.



## Component Video Input

If you connect a video component to a component video input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to **COMPONENT VIDEO IN 2**, you must assign “**IN2**” to the “**BD/DVD**” input selector. Here are the default assignments.

Input selector	Default assignment
BD/DVD	IN1
CBL/SAT	IN2
STB/DVR	-----
GAME1	-----
GAME2	-----
PC	-----
AUX	-----
TV/CD	-----
PHONO	-----

### ■ BD/DVD, CBL/SAT, STB/DVR, GAME1, GAME2, PC, AUX, TV/CD, PHONO

#### ▶ IN1, IN2:

Select the input to which the component has been connected.

#### ▶ -----:

Output composite video sources from the HDMI output.

#### Note

- When composite video and component video sources are upconverted for **HDMI OUT SUB**, only signals with a resolution of 480i/576i are output and the resolution remains the same. If your TV doesn't support this resolution, there will be no picture (→ [page 98](#)).

## Digital Audio Input

If you connect a component to a digital audio input, you must assign that input to an input selector. For example, if you connect your CD player to the **OPTICAL IN 1**, you must assign “**OPTICAL1**” to the “**TV/CD**” input selector.

Here are the default assignments.

Input selector	Default assignment
BD/DVD	COAXIAL1
CBL/SAT	COAXIAL2
STB/DVR	COAXIAL3
GAME1	OPTICAL1
GAME2	-----
PC	-----
AUX	-----
TV/CD	OPTICAL2
PHONO	-----

### ■ BD/DVD, CBL/SAT, STB/DVR, GAME1, GAME2, PC, AUX, TV/CD, PHONO

#### ▶ COAXIAL1, COAXIAL2, COAXIAL3, OPTICAL1, OPTICAL2:

Select the input to which the component has been connected.

#### ▶ -----:

Select if the component is connected to an analog audio input.

#### Note

- When an **HDMI IN** is assigned to an input selector in “**HDMI Input**” (→ [page 62](#)), the same **HDMI IN** will be set as a priority in this assignment. In this case, if you want to use the coaxial or optical audio input, make the appropriate selection in the “**Audio Selector**” (→ [page 72](#)).
- Supported sampling rates for PCM signals (stereo/mono) from a digital input (optical and coaxial) are 32/44.1/48/88.2/96 kHz/16, 20, 24 bit.

## 2. Speaker Setup

Here you can check the settings made by Audyssey MultEQ® Room Correction and Speaker Setup function, or set them manually, which is useful if you change one of the connected speakers after using Audyssey MultEQ Room Correction and Speaker Setup function (→ [page 27](#)).

#### Note

- These settings are not available in either of the following cases:
  - a pair of headphones is connected.
  - The “**Audio TV Out (Main)**” setting is set to “**On**” (→ [page 75](#)) or “**Audio TV Out (Sub)**” setting is set to “**On**” (→ [page 75](#)) and you're listening through your TV speakers.
  - “**HDMI CEC (RIHD)**” is set to “**On**” (→ [page 74](#)) and you're listening through your TV speakers.

## Speaker Settings

If you change these settings, you must run Audyssey MultEQ Room Correction and Speaker Setup again (→ [page 27](#)).

If you bi-amp the front speakers, you must change the “**Speakers Type(Front)**” setting. For details on speaker wire connection, see “**Bi-amping the Front Speakers**” (→ [page 17](#)).

#### Note

- When bi-amping is used, the AV receiver is able to drive up to 5.1 speakers in the main room.
- Before you change these settings, turn down the volume.

### ■ Speaker Impedance

#### ▶ 4ohms:

Select if the impedance of any speaker is 4 ohms or more but less than 6.

#### ▶ 6ohms:

Select if the impedances of all speakers are between 6 and 16 ohms.



## ■ Speakers Type(Front)

### ▶ Normal:

Select this if you've connected your front speakers normally.

### ▶ Bi-Amp:

Select this if you've bi-amped your front speakers.

## ■ Powered Zone 2

### ▶ No

### ▶ Yes:

Zone 2 speakers can be used (Powered Zone 2 enabled).

### Note

- If the "Speakers Type(Front)" setting is set to "Bi-Amp", Powered Zone 2 cannot be used.
- When the "Powered Zone 2" setting is set to "Yes" and Zone 2 is turned on, the surround back and front high speakers cannot be used.

## Speaker Configuration

This setting is set automatically by Audyssey MultEQ® Room Correction and Speaker Setup function (→ [page 27](#)).

With these settings, you can specify which speakers are connected and a crossover frequency for each speaker. Specify "Full Band" for speakers that can output low frequency bass sounds adequately, for example, speakers with a good sized woofer. For smaller speakers, specify a crossover frequency. Sounds below the crossover frequency will be output by the subwoofer instead of the speaker. Refer to your speaker's manuals to determine the optimum crossover frequencies. If you set up your speakers using Audyssey MultEQ Room Correction and Speaker Setup, please make sure manually that any THX speakers are set to "80Hz(THX)" crossover.

## ■ Subwoofer

### ▶ Yes

### ▶ No

## ■ Front

### ▶ Full Band

▶ 40Hz to 80Hz(THX) to 100Hz, 120Hz, 150Hz, 200Hz

### Note

- If the "Subwoofer" setting is set to "No", the "Front" setting is fixed at "Full Band".

## ■ Center<sup>\*1</sup>, Surround<sup>\*1</sup>

### ▶ Full Band

▶ 40Hz to 80Hz(THX) to 100Hz, 120Hz, 150Hz, 200Hz

### ▶ None

## ■ Front Wide<sup>\*1\*2\*4</sup>, Front High<sup>\*1\*2\*3</sup>

### ▶ Full Band

▶ 40Hz to 80Hz(THX) to 100Hz, 120Hz, 150Hz, 200Hz

### ▶ None

## ■ Surround Back<sup>\*1\*2\*3</sup>

### ▶ Full Band

▶ 40Hz to 80Hz(THX) to 100Hz, 120Hz, 150Hz, 200Hz

### ▶ None

### Note

- \*1 "Full Band" can be selected only when "Full Band" is selected in the "Front" setting.
- \*2 If the "Surround" setting is set to "None", this setting cannot be selected.
- \*3 If the "Speakers Type(Front)" setting is set to "Bi-Amp", or the "Powered Zone 2" setting is set to "Yes" together with Zone 2 turned on, this setting cannot be selected.
- \*4 If the "Speakers Type(Front)" setting is set to "Bi-Amp", or the "Powered Zone 2" setting is set to "Yes", this setting cannot be selected.

## ■ Surround Back Ch

### ▶ 1ch:

Select if only one surround back speaker L is connected.

### ▶ 2ch:

Select if two (left and right) surround back speakers are connected.

### Note

- If the "Surround Back" setting is set to "None", this setting cannot be selected.

## ■ LPF of LFE

### (Low-Pass Filter for the LFE Channel)

▶ 80Hz, 90Hz, 100Hz, 120Hz

### ▶ Off:

Low-Pass Filter is not applied.

With this setting, you can specify the cutoff frequency of the LFE channel's low-pass filter (LPF), which can be used to filter out unwanted hum. The LPF only applies to sources that use the LFE channel.

### Note

- If you're using THX-certified speakers, select "80Hz".

## ■ Subwoofer Phase

### ▶ 0°

### ▶ 180°:

Moves the subwoofer phase.

### Note

- If the "Subwoofer" setting is set to "No", this setting cannot be selected.





## ■ Double Bass

This setting is **NOT** set automatically by Audyssey MultEQ® Room Correction and Speaker Setup function (→ [page 27](#)).

- ▶ **On**
- ▶ **Off(THX)**

Turn this setting on to boost bass output by feeding bass sounds from the front left, right, and center channels to the subwoofer. Default setting: “- - - - -”

### Note

- When the “**Subwoofer**” setting is set to “**No**” or the “**Front**” setting to anything other than “**Full Band**”, this setting is fixed to “- - - - -”.
- This setting is set to “**On**” automatically when the “**Subwoofer**” and “**Front**” settings are set for the first time to “**Yes**” and “**Full Band**” respectively.
- If you're using THX-certified speakers, select “**Off(THX)**”.

## Speaker Distance

This setting is set automatically by Audyssey MultEQ Room Correction and Speaker Setup function (→ [page 27](#)).

Here you can specify the distance from each speaker to the listening position so that the sound from each speaker arrives at the listener's ears as the sound designer intended.

### ■ Unit

- ▶ **feet:**  
Distances can be set in feet. Range: **0.5ft** to **30.0ft** in 0.5 foot steps.
  - ▶ **meters:**  
Distances can be set in meters. Range: **0.15m** to **9.00m** in 0.15 meter steps.
- (The default setting varies from country to country.)

## ■ Left, Front Wide Left, Front High Left, Center, Front High Right, Front Wide Right, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left, Subwoofer

- ▶ Specify the distance from each speaker to your listening position.

### Note

- Speakers that you set to “**No**” or “**None**” in “Speaker Configuration” cannot be selected (→ [page 64](#)).
- When the “**Powered Zone 2**” setting is set to “**Yes**” and Zone 2 is turned on, the surround back and front high speakers cannot be used.

## Level Calibration

This setting is set automatically by Audyssey MultEQ Room Correction and Speaker Setup function (→ [page 27](#)).

Here you can adjust the level of each speaker with the built-in test tone so that the volume of each speaker is the same at the listening position.

## ■ Left, Front Wide Left, Front High Left, Center\*1, Front High Right, Front Wide Right, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left

- ▶ **-12.0dB** to **0.0dB** to **+12.0dB** in 0.5 dB steps.

### ■ Subwoofer\*1

- ▶ **-15.0dB** to **0.0dB** to **+12.0dB** in 0.5 dB steps.

### Note

- These settings cannot be calibrated when the AV receiver is muted.
- Speakers that you set to “**No**” or “**None**” in “Speaker Configuration” cannot be selected (→ [page 64](#)).
- When the “**Powered Zone 2**” setting is set to “**Yes**” and Zone 2 is turned on, the surround back and front high speakers cannot be used.

- The test tone is output at the standard level for THX, which is 0 dB (absolute volume setting 82). If you normally listen at volume settings below this, be careful because the test tone will be much louder.

- \*1 For the center speaker and subwoofer, the level settings made by using the Quick Setup are saved in this menu (→ [page 58](#)).

### Tip

- If you're using a handheld sound level meter, adjust the level of each speaker so that it reads 75 dB SPL at the listening position, measured with C-weighting and slow reading.

## Equalizer Settings

With the Equalizer settings, you can adjust the tone of speakers individually with a 5-band equalizer. The volume of each speaker can be set.

### ■ Manual Equalizer

#### ▶ On:

You can adjust the equalizer for each speaker manually. Continue with the following procedure:

- 1** Press **▼** to select “**Channel**”, and then use **◀/▶** to select a speaker.
- 2** Use **▲/▼** to select a frequency, and then use the **◀/▶** to adjust the level at that frequency. The volume at each frequency can be adjusted from **-6dB** to **0dB** to **+6dB** in 1 dB steps.

### Tip

- You can select: “**63Hz**”, “**250Hz**”, “**1kHz**”, “**4kHz**”, or “**16kHz**”. And for the subwoofer, “**25Hz**”, “**40Hz**”, “**63Hz**”, “**100Hz**”, or “**160Hz**”.
- Low frequencies (e.g., 63 Hz) affect bass sounds; high frequencies (e.g., 16 kHz) affect treble sounds.



### 3 Use ▲ to select “Channel”, and then use ◀/▶ to select another speaker.

Repeat steps 1 and 2 for each speaker.

You cannot select speakers that you set to “No” or “None” in the “Speaker Configuration” (→ [page 64](#)).

#### ▶ **Off:**

Tone off, response flat.

#### **Note**

- When the Direct or Pure Audio listening mode is selected, the equalizer settings have no effect.
- If “Audyssey” is enabled, it prevails over this setting (→ [page 68](#)).

## THX Audio Setup

### ■ Surr Back Speaker Spacing

- ▶ <1ft (<0.3m)
- ▶ 1ft-4ft (0.3m-1.2m)
- ▶ >4ft (>1.2m)

You can specify the distance between your surround back speakers.

#### **Note**

- Cannot be set if:
  - “Surround Back” is set to “None” (→ [page 64](#)).
  - “Surround Back Ch” is set to “1ch” (→ [page 64](#)).
  - “Powered Zone 2” is set to “Yes” (→ [page 64](#)) and Zone 2 turned on (→ [page 80](#)).

### ■ THX Ultra2/Select2 Subwoofer

- ▶ **No**
- ▶ **Yes**

If you’re using a THX-certified subwoofer, set this setting to “Yes”.

#### **Note**

- If the “Subwoofer” setting is set to “No”, this setting cannot be selected (→ [page 64](#)).

### ■ BGC

- ▶ **Off**
- ▶ **On**

If your listening room layout (for practical or aesthetic reasons) locates most of the listeners close to the rear wall, the resulting bass level can be sufficiently reinforced by the boundary that the overall sound becomes “boomy”. THX Select2 Plus receivers contain a Boundary Gain Compensation (BGC) feature to improve bass balance.

#### **Note**

- This setting is only available if “THX Ultra2/Select2 Subwoofer” is set to “Yes”.
- If the “Subwoofer” setting is set to “No”, this setting cannot be selected (→ [page 64](#)).

### ■ Loudness Plus

- ▶ **Off**
- ▶ **On**

When the “Loudness Plus” setting is set to “On”, it is possible to enjoy even subtle nuances of audio expression at low volume. This is only available when the THX listening mode is selected.

### ■ Preserve THX Settings

- ▶ **Yes**
- ▶ **No**

If this setting is set to “Yes”, Dynamic EQ and Dynamic Volume have no effect in THX listening mode.

#### **Note**

- This setting is fixed at “Yes” if “Loudness Plus” is set to “On”.

### THX Loudness Plus

THX Loudness Plus is a new volume control technology featured in THX Ultra2 Plus™ and THX Select2 Plus™ Certified receivers. With THX Loudness Plus, home theater audiences can now experience the rich details in a surround mix at any volume level. A consequence of turning the volume below Reference Level is that certain sound elements can be lost or perceived differently by the listener. THX Loudness Plus compensates for the tonal and spatial shifts that occur when the volume is reduced by intelligently adjusting ambient surround channel levels and frequency response. This enables users experience the true impact of soundtracks regardless of the volume setting. THX Loudness Plus is automatically applied when listening in any THX listening mode. The new THX Cinema, THX Music, and THX Games modes are tailored to apply the proper THX Loudness Plus settings for each type of content.

### 3. Audio Adjust

With the Audio Adjust functions and settings, you can adjust the sound and listening modes as you like.

#### Multiplex/Mono

##### ■ Multiplex

##### Input Channel

- ▶ Main
- ▶ Sub
- ▶ Main/Sub

This setting determines which channel of a stereo multiplex source is output. Use it to select audio channels or languages with multiplex sources, multilingual TV broadcasts, and so on.

##### ■ Mono

##### Input Channel

- ▶ Left + Right
- ▶ Left
- ▶ Right

This setting specifies the channel to be used for playing any 2-channel digital source such as Dolby Digital, or 2-channel analog/PCM source in the Mono listening mode.

##### Output Speaker

- ▶ Center:  
Mono audio is output by the center speaker.
- ▶ Left / Right:  
Mono audio is output by the front left and right speakers.

This setting determines which speakers output mono audio when the Mono listening mode is selected.

##### Note

- If the “**Center**” setting is set to “**None**” (→ [page 64](#)), this setting cannot be selected.

#### Dolby

##### ■ PL IIx Music (2ch Input)

These settings apply to only 2-channel stereo sources.

If you're not using any surround back speakers, these settings apply to Dolby Pro Logic II, not Dolby Pro Logic IIx.

##### Panorama

- ▶ On
- ▶ Off

With this setting, you can broaden the width of the front stereo image when using the Dolby Pro Logic IIx Music listening mode.

##### Dimension

- ▶ -3 to 0 to +3

With this setting, you can move the sound field forward or backward when using the Dolby Pro Logic IIx Music listening mode. Higher settings move the sound field backward. Lower settings move it forward. If the stereo image feels too wide, or there's too much surround sound, move the sound field forward to improve the balance. Conversely, if the stereo image feels like it's in mono, or there's not enough surround sound, move it backward.

##### Center Width

- ▶ 0 to 3 to 7

With this setting, you can adjust the width of the sound from the center speaker when using the Dolby Pro Logic IIx Music listening mode. Normally, if you're using a center speaker, the center channel sound is output from only the center speaker. (If you're not using a center speaker, the center channel sound will be distributed to the front left and right speakers to create a phantom center.) This setting controls the front left, right, and center mix, allowing you to adjust the weight of the center channel sound.

##### ■ PL IIz Height Gain

- ▶ Low
- ▶ Mid
- ▶ High

The Height Gain Control in Dolby Pro Logic IIz enables the listener to select how much gain is applied to the front high speakers. There are three settings, “**Low**”, “**Mid**” and “**High**”, and the front high speakers are accentuated in that order. While “**Mid**” is the default listening setting, the listener may adjust the Height Gain Control to their personal preference.

##### Note

- If the “**Front High**” settings is set to “**None**” (→ [page 64](#)), this setting cannot be selected.
- If the “**Powered Zone 2**” setting is set to “**Yes**” and Zone 2 is turned on, this setting cannot be selected.

##### ■ Dolby EX

##### ▶ Auto:

If the source signal contains a Dolby EX flag, the Dolby EX or THX Surround EX listening mode is used.

##### ▶ Manual:

You can select any available listening mode.

This setting determines how Dolby EX encoded signals are handled. This setting is unavailable if no surround back speakers are connected. This setting is effective with Dolby Digital, Dolby Digital Plus and Dolby TrueHD only.

##### Note

- If the “**Surround Back**” setting is set to “**None**” (→ [page 64](#)), this setting cannot be selected.
- If the “**Powered Zone 2**” setting is set to “**Yes**” and Zone 2 is turned on, this setting cannot be selected.
- If the “**Front High**” or “**Front Wide**” setting is enabled (→ [page 64](#)), this setting is fixed to “**Manual**”.



## ■ TrueHD Loudness Management

- ▶ **Off**
- ▶ **On**

This setting specifies whether or not to apply the Late Night processing on a Dolby TrueHD source.

### Note

- When this setting is set to “**Off**”, the Late Night function for Dolby TrueHD sources is automatically fixed to “**Off**”.
- When this setting is set to “**Off**”, the Dialogue Normalization information is not available for Dolby TrueHD sources.

## DTS

### ■ Neo:6 Music

#### Center Image

- ▶ **0** to **2** to **5**

The DTS Neo:6 Music listening mode creates 6-channel surround sound from 2-channel stereo sources. With this setting, you can specify by how much the front left and right channel output is attenuated in order to create the center channel. Changing the value from “**0**” to “**5**” will spread the sound of the center channel to left and right (outwards).

## Audyssey DSX®

### ■ Soundstage

- ▶ **-3dB** to **Reference** to **+3dB**

With this setting, you can adjust the sound stage when using Audyssey DSX.

### Note

- This listening mode can be selected only when all the following conditions are satisfied:
  - The center speaker is connected.
  - Either the front high or front wide speakers are connected.
  - Powered Zone 2 is not in use.

## Theater-Dimensional

### ■ Listening Angle

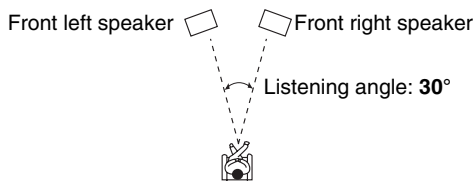
#### ▶ **Wide:**

Select if the listening angle is greater than 30 degrees.

#### ▶ **Narrow:**

Select if the listening angle is less than 30 degrees.

With this setting, you can optimize the Theater-Dimensional listening mode by specifying the angle of the front left and right speakers relative to the listening position. Ideally, the front left and right speakers should be equidistant from the listening position and at an angle close to one of the two available settings.



### Note

- For best results, we recommend setting “**Narrow**” to 20° and “**Wide**” to 40°.

## LFE Level

### ■ Dolby Digital<sup>\*1</sup>, DTS<sup>\*2</sup>, Multich PCM, Dolby TrueHD, DTS-HD Master Audio, DSD<sup>\*3</sup>

- ▶ **-∞dB**, **-20dB**, **-10dB**, or **0dB**

With these settings, you can set the level of the LFE (Low Frequency Effects) channel individually for each input sources.

If you find that low-frequency effects are too loud when using one of these sources, change the setting to **-20 dB** or **-∞ dB**.

<sup>\*1</sup> Dolby Digital and Dolby Digital Plus sources

<sup>\*2</sup> DTS and DTS-HD High Resolution sources

<sup>\*3</sup> DSD (Super Audio CD) sources

## 4. Source Setup

Items can be set individually for each input selector. Press the input selector buttons to select an input source.

### Audyssey®

The tone for each speaker is set automatically by Audyssey MultEQ® Room Correction and Speaker Setup. To enable the following settings, you must first perform the Room Correction and Speaker Setup (→ [page 27](#)).

- These technologies cannot be used when a pair of headphones is connected.

### ■ Audyssey

#### ▶ **Off**

#### ▶ **Movie:**

Select this setting for movie material. The **Audyssey** indicator will light.

#### ▶ **Music:**

Select this setting for music material. The **Audyssey** indicator will light.

### Note

- When “**Audyssey Quick Start**” has been used for measurement, “**Audyssey**” cannot be selected.
- Audyssey equalizing does not work with DSD sources.

## ■ Dynamic EQ

### ▶ Off

### ▶ On:

Audyssey Dynamic EQ® becomes active.

The **Dynamic EQ** indicator will light.

With Audyssey Dynamic EQ, you can enjoy great sound even when listening at low volume levels. Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. It does so by selecting the correct frequency response and surround volume levels moment-by-moment so that the content sounds the way it was created at any volume level — not just at reference level.

## ■ Reference Level

### Audyssey Dynamic EQ Reference Level Offset

#### ▶ 0dB:

This should be selected for movie contents.

#### ▶ 5dB:

Select this setting for content that has a very wide dynamic range, such as classical music.

#### ▶ 10dB:

Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.

#### ▶ 15dB:

Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.

Movies are mixed in rooms calibrated for film reference. To achieve the same reference level in a home theater system each speaker level must be adjusted so that -30 dBFS band-limited (500 Hz to 2000 Hz) pink noise produces 75 dB sound pressure level at the listening position. A home theater system automatically calibrated by Audyssey MultEQ® will

play at reference level when the master volume control is set to the 0 dB position. At that level you can hear the mix as the mixers heard it.

Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Audyssey Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.

#### Note

- If “**Dynamic EQ**” setting is set to “**Off**”, this technology cannot be used.

## ■ Dynamic Volume

### ▶ Off

### ▶ Light:

Activates Light Compression Mode.

### ▶ Medium:

Activates Medium Compression Mode.

### ▶ Heavy:

Activates Heavy Compression Mode. This setting affects volume the most. It quiets the loud parts, such as explosions, and boosts the quiet parts so they can be heard.

#### Note

- If you want to use Audyssey Dynamic EQ or Audyssey Dynamic Volume® with THX listening modes, set the “**Loudness Plus**” setting to “**Off**” and set “**Preserve THX Settings**” to “**No**” (→ [page 66](#)).
- If you make Dynamic Volume active, “**Dynamic EQ**” is set to “**On**”. The **Dynamic Vol** indicator will light.
- When “**Dynamic EQ**” is set to “**Off**”, “**Dynamic Volume**” is automatically switched to “**Off**”.

## About Audyssey Dynamic EQ®

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the correct frequency response and surround levels moment-by-moment at any user-selected volume setting. The result is bass response, tonal balance and surround impression that remain constant despite changes in volume. Dynamic EQ combines information from incoming source levels with actual output sound levels in the room, a prerequisite for delivering a loudness correction solution. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

## About Audyssey Dynamic Volume®

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Dynamic Volume looks at the preferred volume setting by the user and then monitors how the volume of program material is being perceived by listeners in real time to decide whether an adjustment is needed. Whenever necessary, Dynamic Volume makes the necessary rapid or gradual adjustments to maintain the desired playback volume level while optimizing the dynamic range. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression and dialog clarity remain the same whether watching movies, flipping between television channels or changing from stereo to surround sound content.



## IntelliVolume

### ■ IntelliVolume

▶ **-12dB to 0dB to +12dB** in 1 dB steps

With IntelliVolume, you can set the input level for each input selector individually. This is useful if one of your source components is louder or quieter than the others.

Use ◀/▶ to set the level.

If a component is noticeably louder than the others, use ◀ to reduce its input level. If it's noticeably quieter, use ▶ to increase its input level.

#### Note

- IntelliVolume does not work for Zone 2/3.

## A/V Sync

### ■ A/V Sync

▶ **0msec to 800msec** in 5 msec steps

When using progressive scanning on your Blu-ray Disc/DVD player, you may find that the picture and sound are out of sync. With this setting, you can correct this by delaying the audio signals.

Press **ENTER** to view the TV picture while setting the delay when the video source is output to **HDMI OUT MAIN**.

To return to the previous screen, press **RETURN**.

The range of values you can adjust will depend on whether your TV or display supports HDMI Lip Sync and if the "**Lip Sync**" setting is set to "**On**" or not (→ [page 76](#)).

#### Note

- This setting is not available in either of the following cases:
  - The "**Audio TV Out (Main)**" setting is set to "**On**" (→ [page 75](#)) or "**Audio TV Out (Sub)**" setting is set to "**On**" (→ [page 75](#)) and you're listening through your TV speakers.

–"**HDMI CEC (RIHD)**" is set to "**On**" (→ [page 74](#)) and you're listening through your TV speakers.

- A/V Sync is disabled when the Pure Audio or Direct listening mode is used with an analog input source.
- This setting cannot be used with the **NET**, **USB** and **BLUETOOTH** input selectors.

## Name Edit

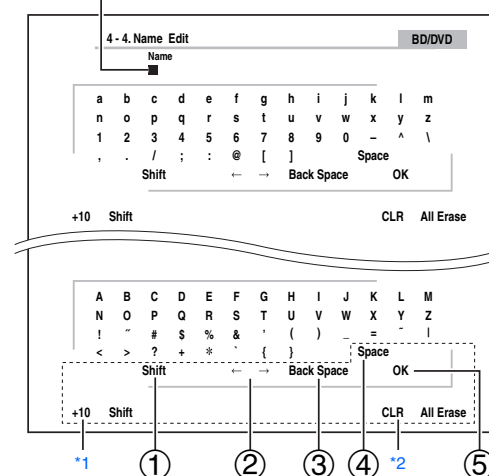
You can enter a custom name for each individual input selector and radio preset for easy identification. When entered, the custom name will appear on the display.

The custom name is edited using the keyboard screen.

### ■ Name

- 1 Use ▲/▼/◀/▶ to select a character, and then press **ENTER**. Repeat this step to enter up to 10 characters.
- 2 To store a name when you're done, be sure to select "**OK**" by using ▲/▼/◀/▶, and then press **ENTER**.

### Name input area



- ① Toggles between lower and upper case characters.\*1
- ② Moves the cursor left or right in the Name input area.
- ③ Moves the cursor backward and deletes one character.\*2
- ④ Enters a space character.
- ⑤ Confirms your entry.

#### Tip

- To name a radio preset, use **TUNER** to select AM or FM, and then select the preset (→ [page 41](#)).
- To restore a name to its default, erase all characters with **CLR**, select "**OK**" and then press **ENTER**.

\*1 This can also be performed by using **+10** on the remote controller.

\*2 Press **CLR** on the remote controller to delete all the characters you have input.

#### Note

- This setting cannot be used for the **NET**, **USB** and **BLUETOOTH** input selectors.





## Picture Adjust

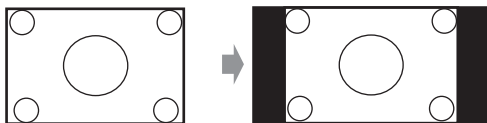
Using Picture Adjust, you can adjust the picture quality and reduce any noise appearing on the screen.

Press **ENTER** to view the TV picture while setting when the video source is output to **HDMI OUT MAIN**. To return to the previous screen, press **RETURN**.

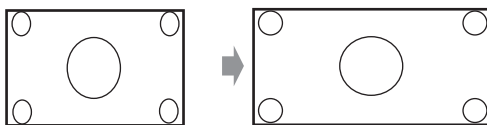
### ■ Wide Mode<sup>1\*6</sup>

This setting determines the aspect ratio.

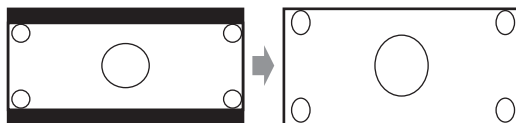
#### ▶ 4:3:



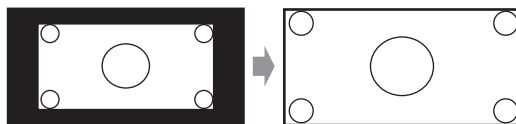
#### ▶ Full:



#### ▶ Zoom:



#### ▶ Wide Zoom:



#### ▶ Auto:

According to the input signals and monitor output setting, the AV receiver automatically selects the “4:3”, “Full”, “Zoom” or “Wide Zoom”

mode. See “Monitor Out” for details on the monitor output setting (→ [page 61](#)).

### ■ Picture Mode<sup>1</sup>

#### ▶ Custom:

All settings can be performed manually.

#### ▶ Cinema:

Select when the picture source is a movie or alike.

#### ▶ Game:

Select when the video source is a game console.

#### ▶ Standard:

Does not adjust picture quality (changes resolution).

#### ▶ Bypass:

Does not adjust picture quality (does not change resolution).

With “Picture Mode”, you can change the following settings to be suitable for the movie or game screen by one operation: “Game Mode”, “Film Mode”, “Edge Enhancement”, “Noise Reduction”, “Brightness”, “Contrast”, “Hue”, “Saturation” or “Color Temperature”.

### ■ Game Mode<sup>2\*3\*4</sup>

#### ▶ Off

#### ▶ On

If video signal delay occurs during playback on a video component (i.e., game console), select the corresponding input source and set the “Game Mode” setting to “On”. The delay will decrease but in return the picture quality will become poor.

### ■ Film Mode<sup>2\*4</sup>

#### ▶ Video:

“Film Mode” detection is not applied and the input signal is handled as a video source.

#### ▶ Auto:

Detects whether the input signal is a video or a movie. If it is a movie, the appropriate conversion is applied.

The AV receiver will adjust to the picture source, automatically converting it to the appropriate progressive signal and reproducing the natural quality of the original picture.

### ■ Edge Enhancement<sup>2\*4\*5</sup>

#### ▶ Off

#### ▶ Low

#### ▶ Mid

#### ▶ High

With this setting, you can make the picture appear sharper.

### ■ Noise Reduction<sup>2\*4\*5</sup>

#### ▶ Off

#### ▶ Low

#### ▶ Mid

#### ▶ High

With this setting, you can reduce noise appearing on the screen. Select the desired level.

### ■ Brightness<sup>1\*2\*4</sup>

#### ▶ -50 to 0 to +50

With this setting, you can adjust the picture brightness. “-50” is the darkest. “+50” is the brightest.

### ■ Contrast<sup>1\*2\*4</sup>

#### ▶ -50 to 0 to +50

With this setting, you can adjust contrast. “-50” is the least. “+50” is the greatest.



### ■ Hue<sup>\*1\*2\*4</sup>

▶ -50 to 0 to +50

With this setting, you can adjust the color hue between “-50” and “+50”.

### ■ Saturation<sup>\*1\*2\*4</sup>

▶ -50 to 0 to +50

With this setting, you can adjust saturation. “-50” is the weakest color. “+50” is the strongest color.

### ■ Color Temperature<sup>\*2\*4</sup>

▶ Warm

▶ Normal

▶ Cool

With this setting, you can adjust the color temperature.

#### Note

- “Picture Adjust” cannot be used when:

- The **NET**, **USB** or **BLUETOOTH** input selector is selected, or

- “Monitor Out” is set to “Sub”.

<sup>\*1</sup> This procedure can also be performed on the remote controller by using the Quick Setup (→ page 56).

<sup>\*2</sup> When the “Picture Mode” setting is set to anything other than “Custom”, this setting cannot be used.

<sup>\*3</sup> If the “Resolution” setting is set to “4K” (→ page 61), this setting is fixed at “Off”.

<sup>\*4</sup> Press **CLR** if you want to reset to the default value.

<sup>\*5</sup> If the “Game Mode” setting is set to “On”, this setting is fixed at “Off”.

<sup>\*6</sup> When a 3D video source is input, “Wide Mode” is fixed to “Full”.

## Audio Selector

### ■ Audio Selector

#### ▶ ARC:

The audio signal from your TV tuner can be sent to **HDMI OUT MAIN** of the AV receiver.<sup>\*1</sup>

With this selection, the TV’s audio can be automatically selected as a priority among other assignments.

#### ▶ HDMI:

This can be selected when **HDMI IN** has been assigned as an input source. If both **HDMI (HDMI IN)** and digital audio inputs (**COAXIAL IN** or **OPTICAL IN**) have been assigned, **HDMI** input is automatically selected as a priority.

#### ▶ COAXIAL:

This can be selected when **COAXIAL IN** has been assigned as an input source. If both coaxial and **HDMI** inputs have been assigned, coaxial input is automatically selected as a priority.

#### ▶ OPTICAL:

This can be selected when **OPTICAL IN** has been assigned as an input source. If both optical and **HDMI** inputs have been assigned, optical input is automatically selected as a priority.

#### ▶ Analog:

The AV receiver always outputs analog signals.

You can set priorities of audio output when there are both digital and analog inputs.

#### Note

- This setting can be made only for an input source that is assigned to **HDMI IN**, **COAXIAL IN**, or **OPTICAL IN**.
- This setting cannot be used with the **NET**, **USB** and **BLUETOOTH** input selectors.
- When using the Whole House Mode, “Audio Selector” is fixed to “Analog”.

<sup>\*1</sup> You can select “ARC” if you select the **TV/CD** input selector. But you cannot if you’ve selected “Off” in the “Audio Return Channel” setting (→ page 76).

## Setting the Incoming Digital Signal (Fixed Mode)

### ■ Fixed Mode

#### ▶ Off:

The format is detected automatically. If no digital input signal is present, the corresponding analog input is used instead.

#### ▶ PCM:

Only 2-channel PCM format input signals will be heard. If the input signal is not PCM, the **PCM** indicator will flash and noise may also be produced.

#### ▶ DTS:

Only DTS (but not DTS-HD) format input signals will be heard. If the input signal is not DTS, the **dts** indicator will flash and there will be no sound.

When “**HDMI**”, “**COAXIAL**” or “**OPTICAL**” is selected in the “**Audio Selector**” setting, you can then specify the signal type in “**Fixed Mode**”.

Normally, the AV receiver detects the signal format automatically. However, if you experience either of the following issues when playing PCM or DTS material, you can manually set the signal format to PCM or DTS.

- If the beginnings of tracks from a PCM source are cut off, try setting the format to PCM.
- If noise is produced when fast forwarding or reversing a DTS CD, try setting the format to DTS.

#### Note

- The setting will be reset to “Off” when you change the setting in “**Audio Selector**”.

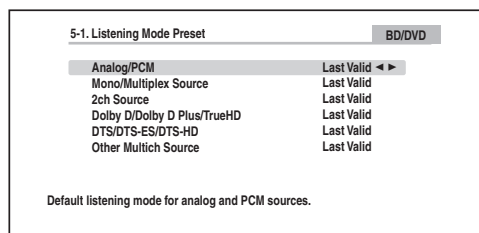


## 5. Listening Mode Preset

You can assign a default listening mode to each input source that will be selected automatically when you select each input source. For example, you can set the default listening mode to be used with Dolby Digital input signals. You can select other listening modes during playback, but the mode specified here will be resumed once the AV receiver has been set to standby.

### 1 Use ▲/▼ to select the input source that you want to set, and then press ENTER.

The following menu appears.



### 2 Use ▲/▼ to select the signal format that you want to set, and then use ◀/▶ to select a listening mode.

Only listening modes that can be used with each input signal format can be selected (→ [pages 44 to 51](#)).

The “**Last Valid**” option means that the listening mode selected last will be used.

The “**Straight Decode**” option means that straight decoding listening mode (Dolby Digital, DTS, etc.) is selected.

#### Note

- For the “**TUNER**” input selector, only “**Analog**” will be available.
- For the “**NET**” or “**USB**” input selector, “**Digital**” and “**TrueHD**” will be available.

- For the “**BLUETOOTH**” input selector, only “**Digital**” is available.

#### ■ Analog/PCM/Digital

With this setting, you can specify the listening mode used when an analog (CD, TV, LD, VHS, MD, turntable, radio, cassette, cable, satellite, etc.) or PCM digital (CD, DVD, etc.) audio signal is played.

#### Note

- For the “**GAME2**” input selector, only “**PCM**” is available.

#### ■ Mono/Multiplex Source

With this setting, you can specify the listening mode used when a mono digital audio signal is played (DVD, etc.).

#### ■ 2ch Source

With this setting, you can specify the listening mode used when 2-channel (2/0) stereo digital sources, such as Dolby Digital or DTS, are played.

#### ■ Dolby D/Dolby D Plus/TrueHD

With this setting, you can specify the listening mode used when Dolby Digital or Dolby Digital Plus format digital audio signals are played (DVD, etc.). Specifies the default listening mode for Dolby TrueHD sources, such as Blu-ray or HD DVD (input via HDMI).

#### ■ DTS/DTS-ES/DTS-HD

With this setting, you can specify the listening mode used when DTS or DTS-HD High Resolution format digital audio signals are played (DVD, LD, CD, etc.). Specifies the default listening mode for DTS-HD Master Audio sources, such as Blu-ray or HD DVD (input via HDMI).

#### ■ Other Multich Source

Specifies the default listening mode for multichannel PCM sources from **HDMI IN** such as DVD-Audio, and DSD multichannel sources such as Super Audio CD.

## 6. Miscellaneous

### Volume Setup

#### ■ Volume Display

##### ▶ Absolute:

Displayed range is **Min, 0.5 to 99.5, Max.**

##### ▶ Relative (THX):

Displayed range is **-∞dB, -81.5dB to +18.0dB.**

With this setting, you can choose how the volume level is displayed.

The absolute value 82 is equivalent to the relative value 0 dB.

#### Note

- If the absolute value is set to 82, “**82.0Ref**” will appear on the display and the **THX** indicator will flash.

#### ■ Muting Level

▶ **-∞dB** (fully muted), **-50dB to -10dB** in 10 dB steps.

This setting determines how much the output is muted when the muting function is used (→ [page 53](#)).

#### ■ Maximum Volume

▶ **Off, 50 to 99** (Absolute display)

▶ **Off, -32dB to +17dB** (Relative display)

With this setting, you can limit the maximum volume. To disable this setting, select “**Off**”.

#### ■ Power On Volume

▶ **Last, Min, 1 to 99 or Max** (Absolute display)

▶ **Last, -∞dB, -81dB to +18dB** (Relative display)

With this preference, you can specify the volume setting to be used each time the AV receiver is turned on.

To use the same volume level that was used when the AV receiver was turned off, select “**Last**”.

The “**Power On Volume**” setting cannot be set higher than the “**Maximum Volume**” setting.

## ■ Headphone Level

▶ **-12dB** to **0dB** to **+12dB**

With this setting, you can specify the headphone volume relative to the main volume. This is useful if there's a volume difference between your speakers and your headphones.

## OSD Setup

### ■ On Screen Display

▶ **On**  
▶ **Off**

This preference determines whether operation details are displayed on-screen when an AV receiver function is adjusted.

Even when “**On**” is selected, operation details may not be output if the input source is connected to an **HDMI IN**.

### ■ Language

(North American models)

▶ **English, Deutsch, Français, Español, Italiano, Nederlands, Svenska**

(European and Australian models)

▶ **English, Deutsch, Français, Español, Italiano, Nederlands, Svenska, Русский язык, 中文**

This setting determines the language used for the on-screen menus.

### ■ Screen Saver

▶ **3min, 5min, 10min**  
▶ **Off**

With this setting, you can set the time until the screen saver activates itself. Once active, the screen saver will go off and the screen will return to its previous state if the AV receiver is operated in any way.

## 7. Hardware Setup

### Tuner

#### ■ AM/FM Frequency Step (North American models)

▶ **10kHz/200kHz:**  
▶ **9kHz/50kHz:**

Select the frequency step according to your area.

#### ■ AM Frequency Step (European and Australian models)

▶ **10kHz:**  
▶ **9kHz:**

Select the frequency step according to your area.

For AM/FM tuning to work properly, you must specify the AM/FM frequency step used in your area.

#### Note

- When this setting is changed, all radio presets will be deleted.

### HDMI

#### ■ HDMI CEC (RIHD)

▶ **Off**  
▶ **On**

Turn this setting on to allow **RIHD**-compatible components connected via HDMI to be controlled by the AV receiver (→ [page 19](#)).

#### Note

- When the setting is set to “**On**” and the menu is closed, the names of connected **RIHD**-compatible components and “**RIHD On**” are displayed on the AV receiver. “**Search...**” → “**(name)**” → “**RIHD On**”  
When the AV receiver cannot receive the name of the component, it is displayed as “**Player\*\***” or “**Recorder\*\***”, etc. (“\*\*” shows up and indicates the number of components, when two or more are received).
- When an **RIHD**-compatible component is connected to the AV receiver via an HDMI cable, the name of the connected component is displayed on the AV receiver display. For example, while you are watching TV broadcasting, if you operate a Blu-ray Disc/DVD player (being powered on) with the remote control of the AV receiver, the name of the Blu-ray Disc/DVD player will be displayed on the AV receiver.
- Set it to “**Off**” when a connected piece of equipment is not compatible or it is unclear whether the equipment is compatible or not.
- If operation is not normal when set to “**On**”, change the setting to “**Off**”.
- Refer to the connected component’s instruction manual for details.
- When the “**HDMI CEC (RIHD)**” setting is set to “**On**”, the power consumption on standby mode slightly increases. (Depending on the TV status, the AV receiver will enter standby mode as usual.)
- The **RIHD** control does not support **HDMI OUT SUB**. Use **HDMI OUT MAIN** instead.
- When the source equipment is connected with the **RI** connection, it may malfunction if “**HDMI CEC (RIHD)**” is set to “**On**”.

## ■ HDMI Through

### ▶ Off

#### ▶ BD/DVD, CBL/SAT, STB/DVR, GAME1, GAME2, PC, AUX, TV/CD, PHONO:

Selects the input source for which the HDMI Through function is enabled.

### ▶ Last:

The HDMI Through function is activated on the input source selected at the time of setting the AV receiver to standby mode.

When enabling the HDMI Through function, regardless of whether the AV receiver is on or in standby, both audio and video streams from an HDMI input will be output to the TV or other components via HDMI connection. The **HDMI** indicator will be dimly-lit in standby mode. Note that the indicator may not light under certain conditions (→ [page 25](#)).

This setting is fixed to “**Auto**” automatically when the above “**HDMI CEC (RIHD)**” setting is set to “**On**”, resulting in automatic input source selection.

### Note

- Only an input source assigned to an **HDMI IN** via “**HDMI Input**” setting is enabled (→ [page 62](#)).
- The power consumption in standby mode will increase during the HDMI Through function; however in the following cases, the power consumption can be saved:
  - The TV is in standby mode.
  - You are watching a TV program.
- Refer to the connected component’s instruction manual for details.
- Depending on the connected component, the correct input source may not be selected with the setting fixed to “**Auto**”.
- This setting is set to “**Off**” automatically when the “**HDMI CEC (RIHD)**” setting is set to “**Off**”.
- This function is only available for the **HDMI OUT MAIN** jack.

## ■ Audio TV Out (Main)

### ▶ Off

### ▶ On

This preference determines whether the incoming audio signal is output from **HDMI OUT MAIN**. You may want to turn this preference on if your TV is connected to **HDMI OUT MAIN** and you want to listen to the audio from a connected component through your TV’s speakers. Normally, this should be set to “**Off**”.

### Note

- If “**On**” is selected and the audio can be output from the TV, the AV receiver will output no sound through its speakers. In this case, “**TV Speaker**” appears on the AV receiver’s display by pressing **DISPLAY**.
- When “**HDMI CEC (RIHD)**” is set to “**On**”, this setting is fixed to “**Auto**”.
- This setting is fixed to “**Off**” when “**Monitor Out**” is set to “**Sub**” (→ [page 61](#)).
- With some TVs and input signals, no sound may be output even when this setting is set to “**On**”.
- When “**Audio TV Out (Main)**” or “**HDMI CEC (RIHD)**” is set to “**On**” and you’re listening through your TV’s speakers, turning up the AV receiver’s volume control will make the sound be output from the AV receiver’s front left and right speakers. To stop the AV receiver’s speakers producing sound, change the settings, change your TV’s settings, or turn down the AV receiver’s volume.
- Listening mode cannot be changed when this setting is set to “**On**” and the audio is output from the TV.
- If the audio signal from the player is not supported by the TV, the audio is not output from the TV even if this setting is enabled. When the audio cannot be output from the TV, (When “**Monitor Out**” is set to “**Both**”, the audio cannot be output from the TV connected to both **HDMI OUT MAIN** and **HDMI OUT SUB**) the audio is output from the speakers connected to the AV receiver.

## ■ Audio TV Out (Sub)

### ▶ Off

### ▶ On

This preference determines whether the incoming audio signal is output from **HDMI OUT SUB**. You may want to turn this preference on if your TV is connected to **HDMI OUT SUB** and you want to listen to the audio from a connected component through your TV’s speakers. Normally, this should be set to “**Off**”.

### Note

- If “**On**” is selected and the audio can be output from the TV, the AV receiver will output no sound through its speakers. In this case, “**TV Speaker**” appears on the AV receiver’s display by pressing **DISPLAY**.
- This setting is fixed to “**Off**” when “**Monitor Out**” is set to “**Main**” (→ [page 61](#)).
- When “**Monitor Out**” is set to “**Both**” (→ [page 61](#)), and this setting is enabled, set audio output of source component to 2ch PCM.
- With some TVs and input signals, no sound may be output even when this setting is set to “**On**”.
- When “**Audio TV Out (Sub)**” is set to “**On**” and you’re listening through your TV’s speakers, turning up the AV receiver’s volume control will make the sound be output from the AV receiver’s front left and right speakers. To stop the AV receiver’s speakers producing sound, change the settings, change your TV’s settings, or turn down the AV receiver’s volume.
- Listening mode cannot be changed when this setting is set to “**On**” and the audio is output from the TV.
- When “**Monitor Out**” is set to “**Both**” (→ [page 61](#)) and only “**Audio TV Out (Sub)**” is set to “**On**”, the audio is not output from the TV connected to **HDMI OUT SUB** except in the case the audio input is via HDMI.
- If the audio signal from the player is not supported by the TV, the audio is not output from the TV even if this setting is enabled. When the audio cannot be output from the TV, (When “**Monitor Out**” is set to “**Both**”, the audio cannot be output from the TV connected to both **HDMI OUT MAIN** and **HDMI OUT SUB**) the audio is output from the speakers connected to the AV receiver.



## ■ Audio Return Channel

### ▶ Off

### ▶ Auto:

The audio signal from your TV tuner can be sent to **HDMI OUT MAIN** of the AV receiver.

The audio return channel (ARC) function allows an ARC capable TV to send the audio stream to **HDMI OUT MAIN** of the AV receiver. To use this function, you must select the **TV/CD** input selector and your TV must be ARC capable. Default setting: “- - - - -”

### Note

- This setting is fixed to “- - - - -” when the “**HDMI CEC (RIHD)**” setting is set to “**Off**”.
- This setting is set to “**Auto**” automatically when the “**HDMI CEC (RIHD)**” setting is set to “**On**” for the first time.
- If you set “**Audio Return Channel**” to “**Auto**”, the “**Audio Selector**” settings of the **TV/CD** input selector will be automatically switched to “**ARC**” (→ [page 72](#)).

### Tip

- After changing the settings of the “**HDMI CEC (RIHD)**”, “**HDMI Through**” or “**Audio Return Channel**”, turn off the power on all connected pieces of equipment and then turn them on again. Refer to the user’s manuals for all connected pieces of equipment.

## ■ Lip Sync

### ▶ Off

### ▶ On

This function allows the AV receiver to automatically correct any delay between the video and the audio, based on the data from the connected monitor.

### Note

- This function works only if your HDMI-compatible TV supports HDMI Lip Sync.

## ■ InstaPrevue

These settings apply to “**InstaPrevue**” of the Home menu (→ [page 55](#)) and specify the preview display of HDMI video streams.

## Sub Window

### ▶ Multi:

Displays preview thumbnails all at once.

### ▶ Single:

Displays preview thumbnails one-by-one.

With this setting, you can set the number of preview thumbnails displayed.

### Position

(with “**Sub Window**” set to “**Multi**”)

#### ▶ Top, Bottom, Left, Right

(with “**Sub Window**” set to “**Single**”)

#### ▶ Upper Left, Upper Right, Lower Left, Lower Right

With this setting, you can set the position of preview thumbnails on the TV screen.

### Note

- Depending on video signals, the picture may not be properly rendered on the preview thumbnails of InstaPrevue.

## Auto Standby

### ■ Auto Standby

#### ▶ Off

#### ▶ On

When “**Auto Standby**” is set to “**On**”, the AV receiver will automatically enter standby mode if there is no operation for 30 minutes with no audio and no video signal input.

“**Auto Standby**” will appear on the AV receiver’s display and OSD 30 seconds before the Auto Standby comes on.

Default setting: **On (European and Australian models), Off (North American models)**

### Note

- Set to “**On**”, the Auto Standby function may activate itself during playback with some sources.

- The Auto Standby function does not work when Zone 2/3 is on.

## ■ HDMI Through

### ▶ Off

### ▶ On

This setting enables or disables the Auto Standby during HDMI Through by detecting the audio/video input signal.

When this setting is set to “**On**”, the AV receiver will automatically enter standby mode if there is no audio and no video signal input during HDMI Through for 30 minutes. (The Auto Standby function does not work when Zone 2/3 is on.)

When this setting is set to “**Off**”, the status of HDMI Through is continued regardless of audio/video input signal.

### Tip

- Entering standby mode is possible by setting “**HDMI CEC (RIHD)**” to “**On**” and using CEC-compatible component regardless of the above-mentioned setting. See “**HDMI CEC (RIHD)**” in “7. Hardware Setup” for linked operation (→ [page 74](#)).
- When the HDMI Through is enabled, the power consumption slightly increases.

### Note

- This setting is fixed to “**Off**” when “**Auto Standby**” is set to “**Off**”.



## Network

This section explains how to configure the AV receiver's network settings manually.

After modifying the network settings, you must confirm the changes by executing **"Save"**.

If your router's DHCP server is enabled, you don't need to change any of these settings, as the AV receiver is set to use DHCP to configure itself automatically by default (i.e., DHCP is set to **"Enable"**). If, however, your router's DHCP server is disabled (you're for example using static IP), you'll need to configure these settings yourself, in which case, a knowledge of Ethernet networking is essential.

### What's DHCP?

DHCP (Dynamic Host Configuration Protocol) is used by routers, computers, the AV receiver, and other devices to automatically configure themselves on a network.

### What's DNS?

The DNS (Domain Name System) translates domain names into IP addresses. For example, when you enter a domain name such as *www.onkyousa.com* in your Web browser, before accessing the site, your browser uses DNS to translate this into an IP address, in this case 63.148.251.142.

### ■ Network Connection

#### ▶ **Wired**

#### ▶ **Wireless**

This setting determines whether you connect the AV receiver to network by wired LAN or wireless LAN. If you connect by wireless LAN, select **"Wireless"**. See "Performing Wireless LAN Setup" for setting (→ [page 30](#)).

#### Tip

- The same setting is available even if **"Wireless"** is selected in **"Network Connection"** in initial setup (→ [page 26](#)).

### ■ MAC Address

This is the AV receiver's MAC (Media Access Control) address. This address cannot be changed.

### ■ DHCP

#### ▶ **Enable**

#### ▶ **Disable**

This setting determines whether or not the AV receiver uses DHCP to automatically configure its IP Address, Subnet Mask, Gateway, and DNS Server settings.

#### Note

- If you select **"Disable"**, you must configure the **"IP Address"**, **"Subnet Mask"**, **"Gateway"**, and **"DNS Server"** settings yourself.

### ■ IP Address

#### ▶ Class A:

"10.0.0.0" to "10.255.255.255"

#### ▶ Class B:

"172.16.0.0" to "172.31.255.255"

#### ▶ Class C:

"192.168.0.0" to "192.168.255.255"

Enter a static IP address provided by your Internet Service Provider (ISP).

Most routers use Class C IP addresses.

### ■ Subnet Mask

Enter the subnet mask address provided by your ISP (typically 255.255.255.0).

### ■ Gateway

Enter the gateway address provided by your ISP.

### ■ DNS Server

Enter the DNS server address provided by your ISP.

### ■ Proxy URL

To use a Web proxy, enter its URL here.

### ■ Proxy Port

If you're using a Web proxy, enter a proxy port number here.

### ■ Network Standby

#### ▶ **On**

#### ▶ **Off**

This setting enables or disables control over the network.

When enabled, the **NET** indicator will be dimly-lit while the AV receiver is in standby mode. Note that the indicator may not light under certain conditions (→ [page 25](#)).

#### Note

- When set to **"On"**, the power consumption slightly increases in standby mode.

### ■ Update Notice

#### ▶ **Enable**

#### ▶ **Disable**

When this setting is enabled, you will be notified if a firmware update via network of high importance is available.

#### Note

- Selecting **"Never Remind me"** on the notification window will switch this setting to **"Disable"** (→ [page 25](#)).
- For details on the update notification, see "Firmware Update Notification" (→ [page 25](#)).





## ■ Bluetooth

This setting enables the AV receiver to pair with Bluetooth-enabled device.

### Status

Press **ENTER** button to display “**Now Pairing**” and start pairing.

### Tip

- If pairing setting is not set, “**Ready**” appears on-screen display. The name of the device paired with the AV receiver is displayed if pairing setting is set.
- For details on the Bluetooth connection, refer to the instruction manual of the Bluetooth-enabled device.
- The pairing can be done by holding down **BLUETOOTH** button on the AV receiver until **BLUETOOTH** indicator flashes.

### Note

- This setting cannot be selected if you’ve selected **NET** or **USB** as input selector in Multi Zone.

## Initial Setup

---

If you skipped the initial setup wizard, for example on first-time use, you can reaccess it from here.

See “**Initial Setup**” (→ [page 25](#)).

### Note

- This setting cannot be selected if the “**Monitor Out**” setting is set to “**Sub**”.

## 8. Remote Controller Setup

### Remote ID

---

#### ■ Remote ID

▶ **1, 2, or 3**

When several Onkyo components are used in the same room, their remote ID codes may overlap. To differentiate the AV receiver from other components, you can change its remote ID from “**1**”, to “**2**” or “**3**”.

### Note

- If you do change the AV receiver’s remote ID, be sure to change the remote controller to the same ID (see below), otherwise, you won’t be able to control it with the remote controller.

### Changing the remote controller’s ID

- 1 While holding down RECEIVER, press and hold down Q SETUP until the RECEIVER lights (about 3 seconds).**
- 2 Use the number buttons to enter ID 1, 2, or 3. RECEIVER flashes twice.**

### Remote Mode Setup

---

See “Looking up for Remote Control Codes” (→ [page 82](#)).

## 9. Lock Setup

With this preference, you can protect your settings by locking the setup menus.

### ■ Setup

▶ **Locked**

▶ **Unlocked**

When “**Locked**” is selected, the setup menus will be locked and you cannot change any setting.





# Multi Zone

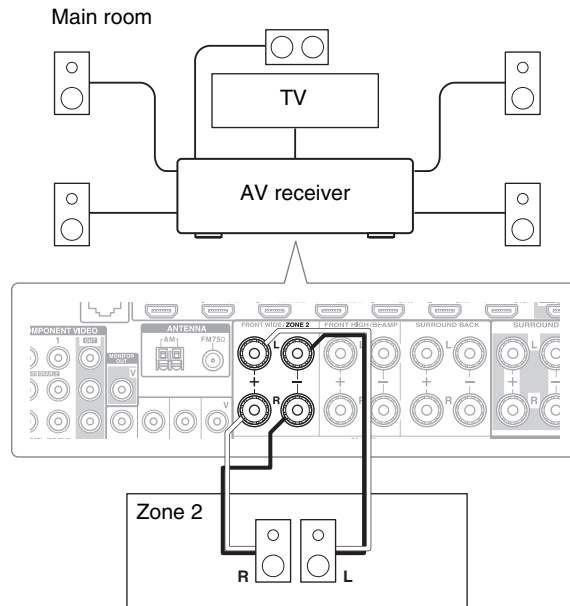
In addition to the main listening room, you can also enjoy playback in the other room, or as we call Multi Zone. And, you can select a different source for each room.

## Making Multi Zone Connections

### Connecting Your Zone 2 Speakers Directly to the AV receiver

This setup allows you to select different sources for Main room and Zone 2. This is called Powered Zone, as the Zone 2 speakers are powered by the AV receiver.

To use this setup, you must activate the Powered Zone 2 setting (→ [page 64](#)).

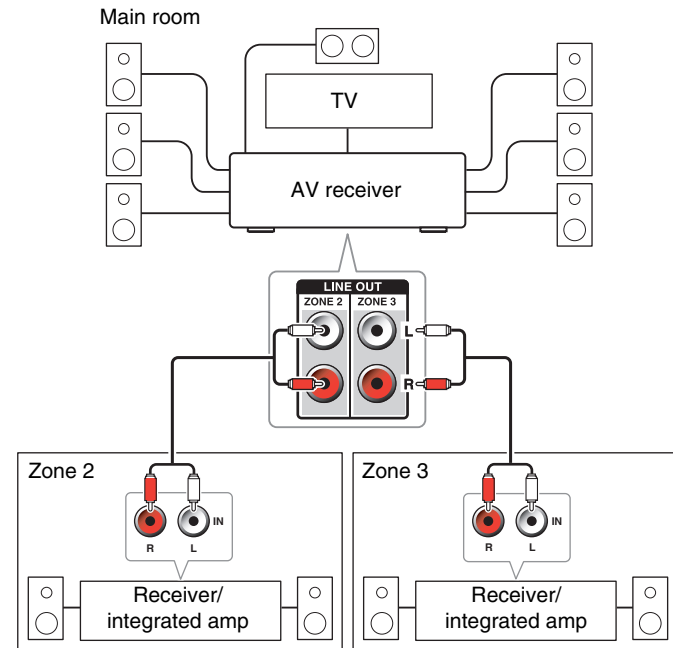


#### Note

- With this setup, the volume of Zone 2 is controlled by the AV receiver.
- When Powered Zone 2 is used, playback in the main room is reduced to 5.1 channels.

### Connecting the Zone Speakers to an Additional Amplifier

This setup allows 7.1-channel playback in your main listening room and 2-channel stereo playback in Zone 2/3.



#### Note

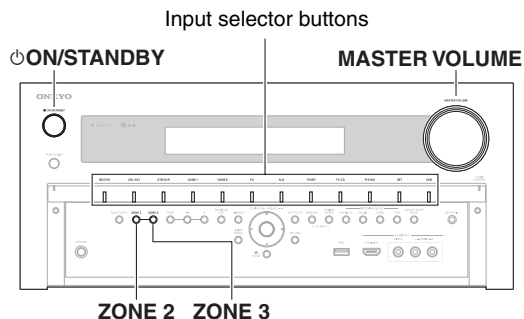
- The volume of Zone 2/3 must be set on the Zone 2/3 amplifier.

## 12V Trigger Out

When Zone 2 is turned on, the output from the **ZONE 2 12V TRIGGER OUT** jack goes high (+12 V and max. 150 mA for Zone 2). Connecting this jack to a 12-volt trigger input on a component in Zone 2 will make that component turn on or off as the AV receiver turns on or off the Zone 2.

## Controlling Multi Zone Components

### ■ Operating on the AV receiver



#### Tip

- The Whole House Mode function shares the input source of main room with Multi Zone (→ [page 53](#)).

- 1 To turn on Zone 2/3 and select an input source, press **ZONE 2** or **ZONE 3** followed by an input selector button within 8 seconds.

Zone 2/3 turns on, the **Z2** or **Z3** indicator lights on the AV receiver's display.

#### Tip

- The Zone 2 trigger output goes high (+12 V).

To select AM or FM, press **ZONE 2** or **ZONE 3** and the **TUNER** input selector repeatedly.

To select the same source as the main room's, press **ZONE 2** or **ZONE 3** twice. "**Zone 2 Selector: Source**" or "**Zone 3 Selector: Source**" appears on the AV receiver's display.

- 2 To turn off Zone 2/3, press **ZONE 2** or **ZONE 3** followed by **ON/STANDBY** within 8 seconds.

The zone is turned off.

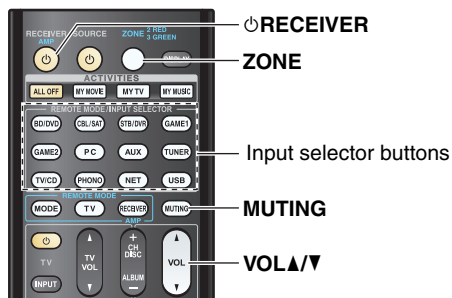
#### Tip

- The Zone 2 trigger output goes low (0 volts).

### ■ Operating on the remote controller

To control Zone 2/3, you must press **ZONE** on the remote controller first.

**ZONE** turns red when Zone 2 is on, and green when Zone 3 is on.



- 1 Press **ZONE** repeatedly, then point the remote controller at the AV receiver and press **RECEIVER**.

Zone 2/3 turns on, the **Z2** or **Z3** indicator lights on the AV receiver's display.

#### Tip

- The Zone 2 trigger output goes high (+12 V).

- 2 To select an input source for Zone 2/3, press **ZONE** repeatedly, followed by an **INPUT SELECTOR** button.

To select AM or FM, press **ZONE** and the **TUNER** input selector repeatedly.

- 3 To turn off Zone 2/3, press **ZONE** repeatedly, followed by **RECEIVER**.

The zone is turned off.

#### Tip

- The Zone 2 trigger output goes low (0 volts).

## Adjusting the Volume for Zone 2

### ■ Operating on the remote controller

- 1 Press **ZONE** repeatedly to select Zone 2.

- 2 Use **VOL ▲/▼**.

### ■ Operating on the AV receiver

- 1 Press **ZONE 2** (the **Z2** indicator on the AV receiver's display flashes).

- 2 Use **MASTER VOLUME** control within 8 seconds.

If your Zone 2 speakers are connected to a receiver or integrated amplifier in Zone 2, use its volume control to adjust the volume.



## Muting Zone 2

### ■ Operating on the remote controller

- 1 Press **ZONE** repeatedly to select Zone 2, and then press **MUTING**.

#### Tip

- To unmute, press **ZONE** followed by **MUTING** again. Zone 2 can also be unmuted by adjusting the volume.

#### Note

- Only analog, **NET** or **USB** input source is output from the **ZONE 2/ZONE 3 LINE OUT** jacks and **ZONE 2 L/R** terminals.
- You cannot select different AM or FM radio stations for your main room and Zone 2/3. The same AM/FM radio station will be heard in each room. Namely, if you have selected an FM station for the main room, that station will also be output in Zone 2/3.
- You cannot select different input selector **NET** or **USB** for your main room and Zone 2/3. Namely, if you have selected **USB** input selector for Zone 2/3, **USB** input selector will be selected in main room even if **NET** has been selected for main room.
- **BLUETOOTH** cannot be selected as input selector in Multi Zone. If you play audio from Bluetooth-enabled device in Multi Zone, select “**Zone 2 Selector: Source**” or “**Zone 3 Selector: Source**”, and **BLUETOOTH** as input selector in Main room.
- When Zone 2/3 is activated and its input selector is selected, the power consumption of standby mode slightly increases.
- While Zone 2/3 is on, **RI** functions will not work.
- When setting the AV receiver to standby mode while Zone 2/3 is active, the **Z2** or **Z3** indicator is dimly lit.
- Activating Zones in the main room when the listening mode is set to Pure Audio will automatically switch it to Direct.
- “**GAME2**” cannot be selected as input sources for Zone 2/3.
- When “**GAME2**” is the input source of Main room and Zone 2/3 is set to share the same source, no sound will be output from Zone 2/3.

- Even if you repeatedly press the remote controller’s **ZONE** to select zones, the last zone selection will be retained once you have switched to other components by pressing other **REMOTE MODE** after pressing **ZONE**.

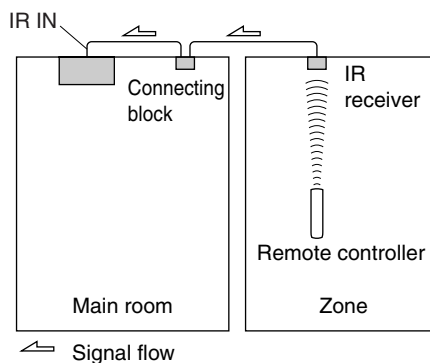
### Using the Remote Controller in Zone and Multiroom Control Kits

To control the AV receiver with the remote controller while you’re in Zone, you’ll need a commercially available multiroom remote control kit for each zone.

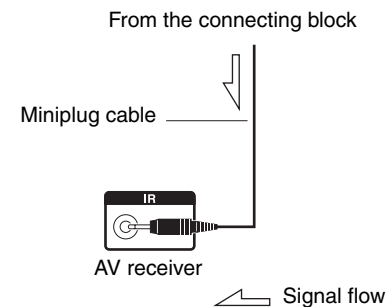
- Multiroom kits are made by Niles and Xantech. These kits can also be used when there isn’t a clear line of sight to the AV receiver’s remote sensor, such as when it’s installed inside a cabinet.

#### Using a Multiroom Kit with Zone

In this setup, the IR receiver in Zone picks up the infrared signals from the remote controller and feeds them through to the AV receiver in the main room via the connecting block.

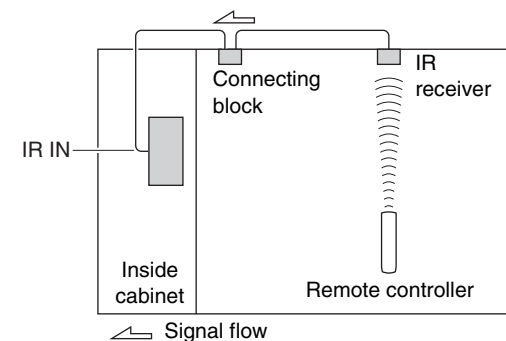


The miniplug cable from the connecting block should be connected to the AV receiver’s **IR IN** jack, as shown below.



#### Using a Multiroom Kit with a Cabinet

In this setup, the IR receiver picks up the infrared signals from the remote controller and feeds them to the AV receiver located in the cabinet via the connecting block.



# Controlling Other Components

You can use the AV receiver's remote controller to control your other AV components, including those made by other manufacturers. This section explains how to enter the remote control code for a component that you want to control: DVD, TV, CD, etc.

See "Learning Commands" for learning commands directly from another component's remote controller (→ [page 89](#)).

See "Using Normal Macros" for programming **ACTIVITIES** to perform a sequence of remote control actions (→ [page 90](#)).

## Preprogrammed Remote Control Codes

The following **REMOTE MODE** buttons are preprogrammed with remote control codes for controlling the components listed. You do not need to enter a remote control code to control these components.

For details on controlling these components, see the indicated pages.

**BD/DVD** Onkyo Blu-ray Disc player (→ [page 84](#))

**TV/CD** Onkyo CD player (→ [page 83](#))

**STB/DVR** Apple TV

## Looking up for Remote Control Codes

You can look up for an appropriate remote control code from the on-screen menu.

### Note

- You need to connect your TV to the HDMI output (**HDMI OUT MAIN**) to make the following on-screen setting.

- Press **RECEIVER** followed by **HOME**.
- Use **◀/▶** or **▲/▼** to select "Setup", and then press **ENTER**.
- Use **▲/▼** to select "Remote Controller Setup", and then press **ENTER**.
- Use **▲/▼** to select "Remote Mode Setup", and then press **ENTER**.
- Use **▲/▼** to select a remote mode, and then press **ENTER**.  
The menu of category selection appears.
- Use **▲/▼** to select a category, and then press **ENTER**.  
The keyboard screen for brand name input appears.
- Use **▲/▼/◀/▶** to select a character, and then press **ENTER**.  
Repeat this step for the first three characters of the brand name.  
When you have entered the 3rd character, select "Search" and press **ENTER**.  
A list of brand names is retrieved.  
**If the desired brand name is not found:**  
Use **▶** to select "Not Listed", and then press **ENTER**.  
The keyboard screen for brand name input appears.
- Use **▲/▼** to select a brand, and then press **ENTER**.  
A remote control code with its instructions are displayed. Follow the procedure.

- If you can control the component, use **▲/▼** to select "OK", and then press **ENTER**.  
The on-screen menu returns to the "Remote Mode Setup" front screen.

If you cannot control the component, use **▲/▼** to select "Try Next Code" and press **ENTER**.  
The next code is displayed.

## Entering Remote Control Codes

You'll need to enter a code for each component that you want to control.

- Look up the appropriate remote control code in the separate **Remote Control Codes** list.  
The codes are organized by category (e.g., DVD player, TV, etc.).
- While holding down the **REMOTE MODE** button to which you want to assign a code, press and hold down **DISPLAY** (about 3 seconds).  
The **REMOTE MODE** button lights.

### Note

- Remote control codes cannot be entered for **RECEIVER** and the multi zone button.
- Only TV remote control codes can be entered for **TV**.
- Except for **RECEIVER**, **TV**, and the multi zone button, remote control codes from any category can be assigned for the **REMOTE MODE** buttons. However, these buttons also work as input selector buttons, so choose a **REMOTE MODE** button that corresponds with the input to which you connect your component. For example, if you connect your CD player to the CD input, choose **TV/CD** when entering its remote control code.



### 3 Within 30 seconds, use the number buttons to enter the 5-digit remote control code.

The **REMOTE MODE** button flashes twice. If the remote control code is not entered successfully, the **REMOTE MODE** button will flash once slowly.

#### Note

- Though the provided remote control codes are correct at the time of release, they are subject to change.

## Remapping Colored Buttons

You can change the configuration of colored buttons, with which **REMOTE MODE** buttons are preset.

### 1 While holding down the **REMOTE MODE** button that you want to program, press and hold down **A (Red)** until the **REMOTE MODE** button lights (about 3 seconds).

You can only change colored buttons for components whose codes belong to categories of the Remote Control Codes list (BD/DVD player, TV, cable set-top box, etc).

### 2 Within 30 seconds, press the colored buttons in the order that you want to reassign them.

The button presses are assigned to each button from left to right. The **REMOTE MODE** button flashes twice, indicating that the sequence has been successfully assigned. If the sequence is not successfully assigned, the **REMOTE MODE** button will flash once slowly.

#### Tip

- To reset the **REMOTE MODE** buttons to their default settings, see “Resetting the **REMOTE MODE** Buttons”.

#### Note

- If any other button than the colored buttons is pressed, the operation will be cancelled.
- This operation cannot be done while the AV receiver is in Receiver mode or when Zone 2/3 is active.

## Remote Control Codes for Onkyo Components Connected via RI

Onkyo components that are connected via **RI** are controlled by pointing the remote controller at the AV receiver, not the component. This allows you to control components that are out of view, in a rack, for example.

### 1 Make sure the Onkyo component is connected with an **RI** cable and an analog audio cable (RCA).

See “Connecting Onkyo RI Components” for details (→ [page 23](#)).

### 2 Enter the appropriate remote control code for a **REMOTE MODE** button, by referring to the previous section.

#### ▶ 42157:

Onkyo cassette tape deck with **RI**

#### ▶ 81993:

Onkyo Dock with **RI**

### 3 Press the **REMOTE MODE** button, point the remote controller at the AV receiver, and operate the component.

#### Controlling Onkyo components without **RI**

If you want to control an Onkyo component by pointing the remote controller directly at it, or you want to control an Onkyo component that's not connected via **RI**, use the following remote control codes:

#### ▶ 30627:

Onkyo DVD player without **RI**

#### ▶ 71817:

Onkyo CD player without **RI**

#### ▶ 32900/33100/33500:

Onkyo Blu-ray Disc player

#### ▶ 32901/33104/33504:

Onkyo HD DVD player

#### ▶ 70868:

Onkyo MD recorder without **RI**

#### ▶ 71323:

Onkyo CD recorder without **RI**

#### ▶ 82990:

Onkyo Dock without **RI**

## Resetting the **REMOTE MODE** Buttons

You can reset a **REMOTE MODE** button to its default remote control code.

### 1 While holding down the **REMOTE MODE** button that you want to reset, press and hold down **HOME** until the **REMOTE MODE** button lights (about 3 seconds).

### 2 Within 30 seconds, press the **REMOTE MODE** button again.

The **REMOTE MODE** button flashes twice, indicating that the button has been reset. Each **REMOTE MODE** button is preprogrammed with a remote control code. When a button is reset, its preprogrammed code is restored.

#### Note

- The learning command is also reset.



## Resetting the Remote Controller

You can reset the remote controller to its default settings.

- 1 While holding down **RECEIVER**, press and hold down **HOME** until **RECEIVER** lights (about 3 seconds).
- 2 Within 30 seconds, press **RECEIVER** again. **RECEIVER** flashes twice, indicating that the remote controller has been reset.

## Controlling Other Components

By pressing the **REMOTE MODE** button that's been programmed with the remote control code for your component, you can control your component as described below.

For details on entering a remote control code for other components, see "Entering Remote Control Codes" (→ [page 82](#)).

### Controlling a TV

**TV** is preprogrammed with the remote control code for controlling a TV that supports the **RIHD**<sup>\*1</sup> (limited to some models). The TV must be able to receive remote control commands via **RIHD** and be connected to the AV receiver via HDMI. If controlling your TV via **RIHD** doesn't work very well, program your TV's remote control code into **TV** and use the TV remote mode to control your TV.

Use the following remote control codes:

- ▶ **11807/13100/13500:**  
TV with **RIHD**

### Controlling Apple TV

By programming the supplied remote controller with the appropriate remote control code, you can use it to operate your Apple TV.

Use the following remote control codes:

- ▶ **02615:**  
Apple TV

### Controlling MHL-Enabled Mobile Device

By programming the supplied remote controller with the appropriate remote control code, you can use it to operate your MHL-enabled mobile device.

Connect your MHL-enabled mobile device to the **AUX INPUT MHL** jack. We advise you to program the remote control code on the **AUX** button.

Use the following remote control codes:

**(North American models)**

- ▶ **33101:**  
MHL-enabled mobile device

**(European and Australian models)**

- ▶ **32910:**  
MHL-enabled mobile device

#### Note

- With some mobile devices, reliable operation cannot be guaranteed.

### Controlling a Blu-ray Disc/DVD Player, HD DVD Player or DVD Recorder

**BD/DVD** is preprogrammed with the remote control code for controlling a component that supports the **RIHD**<sup>\*1</sup> (limited to some models). The component must be able to receive remote control commands via **RIHD** and be connected to the AV receiver via HDMI.

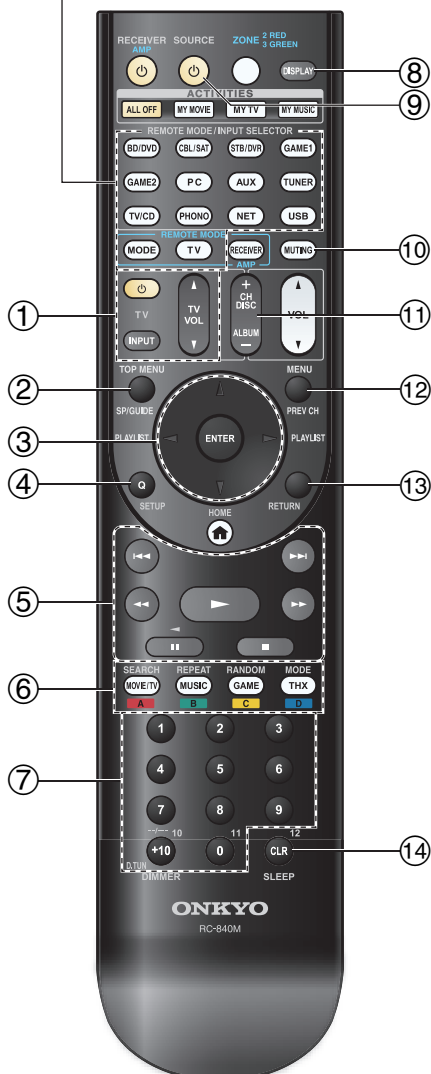
Use the following remote control codes:

- ▶ **32910/33101/33501/31612:**  
Blu-ray Disc/DVD player with **RIHD**

\*1 The **RIHD** supported by the AV receiver is the CEC system control function of the HDMI standard.



Press the appropriate **REMOTE MODE** button first.



### ■ TV operation

#### Available buttons

①	⏻, INPUT, TV VOL ▲/▼	⑦	Number: 1 to 9, 0
②	GUIDE		Number: +10*1
③	▲/▼/◀/▶, ENTER	⑧	DISPLAY
④	SETUP	⑩	MUTING
⑤	▶,   , ■, ◀◀, ▶▶, ◀◀, ▶▶*1	⑪	CH +/-
⑥	A (Red)*1 B (Green)*1 C (Yellow)*1 D (Blue)*1	⑫	PREV CH
		⑬	RETURN
		⑭	CLR

### ■ Blu-ray Disc player/HD DVD player operation

#### Available buttons

②	TOP MENU	⑧	DISPLAY
③	▲/▼/◀/▶, ENTER	⑨	⏻SOURCE
④	SETUP	⑩	MUTING
⑤	▶,   , ■, ◀◀, ▶▶, ◀◀, ▶▶	⑪	CH +/- DISC +/-
⑥	A (Red) B (Green) C (Yellow) D (Blue)	⑫	MENU
		⑬	RETURN
		⑭	CLR
⑦	Number: 1 to 9, 0 Number: +10*1		

### ■ DVD player/DVD recorder operation

#### Available buttons

②	TOP MENU	⑧	DISPLAY
③	▲/▼/◀/▶, ENTER	⑨	⏻SOURCE
④	SETUP	⑩	MUTING
⑤	▶,   , ■, ◀◀, ▶▶, ◀◀, ▶▶	⑪	CH +/- DISC +/-
⑥	A (Red)*1 B (Green) C (Yellow)*1 D (Blue)*1	⑫	MENU
		⑬	RETURN
		⑭	CLR
⑦	Number: 1 to 9, 0 Number: +10*1		

### ■ VCR/PVR operation

#### Available buttons

②	GUIDE	⑧	DISPLAY
③	▲/▼/◀/▶, ENTER	⑨	⏻SOURCE
④	SETUP	⑩	MUTING
⑤	▶,   , ■, ◀◀, ▶▶, ◀◀, ▶▶	⑪	CH +/-
		⑫	PREV CH
⑦	Number: 1 to 9, 0 Number: +10	⑬	RETURN
		⑭	CLR

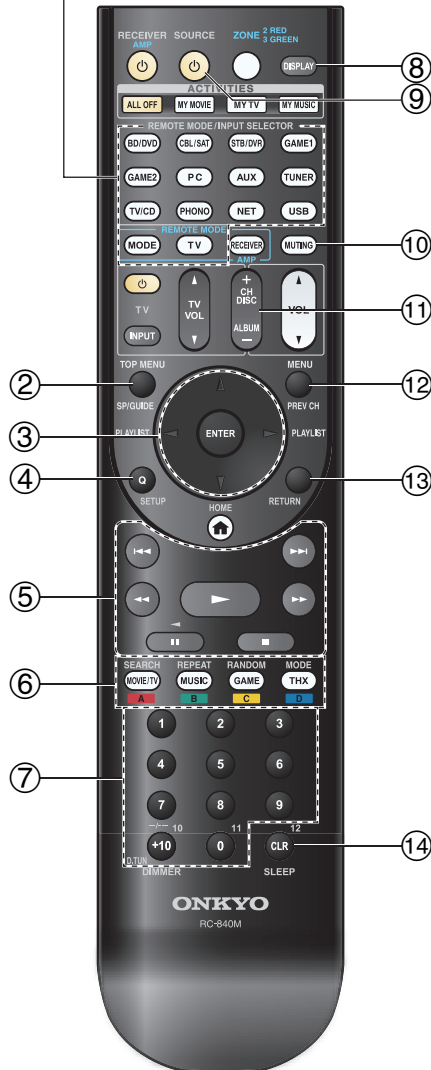
### ■ Cassette tape deck operation

#### Available buttons

⑤	▶, ◀ (Reverse Playback), ■, ◀◀, ▶▶, ◀◀, ▶▶	⑨	⏻SOURCE
		⑩	MUTING



Press the appropriate **REMOTE MODE** button first.



### ■ Satellite receiver/Cable receiver operation

Available buttons		
②	<b>GUIDE</b>	⑦ Number: 1 to 9, 0
③	<b>▲/▼/◀/▶, ENTER</b>	Number: +10
④	<b>SETUP</b>	⑧ <b>DISPLAY</b>
⑤	<b>▶,   , ■, ◀◀, ▶▶, ◀◀, ▶▶</b>	⑨ <b>SOURCE</b>
		⑩ <b>MUTING</b>
⑥	<b>A (Red)</b>	⑪ <b>CH +/-</b>
	<b>B (Green)</b>	⑫ <b>PREV CH</b>
	<b>C (Yellow)</b>	⑬ <b>RETURN</b>
	<b>D (Blue)</b>	⑭ <b>CLR</b>

### ■ CD player/CD recorder/MD recorder operation

Available buttons		
③	<b>▲/▼/◀/▶, ENTER</b>	⑦ Number: 1 to 9, 0
④	<b>SETUP</b>	Number: +10
⑤	<b>▶,   , ■, ◀◀, ▶▶, ◀◀, ▶▶</b>	⑧ <b>DISPLAY</b>
		⑨ <b>SOURCE</b>
⑥	<b>SEARCH</b>	⑩ <b>MUTING</b>
	<b>REPEAT</b>	⑪ <b>DISC +/-</b>
	<b>RANDOM</b>	⑬ <b>CLR</b>
	<b>MODE</b>	

#### Note

- With some components, certain buttons may not work as expected, and some may not work at all.
- See “Controlling Your iPod/iPhone” about the operation of iPod/iPhone (→ [page 88](#)).

\*1 The **RIHD** function is not supported. The **RIHD** supported by the AV receiver is the CEC system control function of the HDMI standard.

## Using the Onkyo Dock

### RI Dock

With the RI Dock, you can easily play the music of your iPod/iPhone, or watch the slideshows and videos of your iPod/iPhone on a TV. In addition, the on-screen display (OSD) allows you to view, navigate, and select your iPod/iPhone model's contents on your TV, and with the supplied remote controller, you can control your iPod/iPhone from the comfort of your sofa. You can even use the AV receiver's remote controller to operate your iPod/iPhone.

#### Note

- Enter the appropriate remote control code before using the AV receiver's remote controller for the first time (→ [page 83](#)).
- Connect the RI Dock to the AV receiver with an **RI** cable (→ [page 23](#)).
- Set the RI Dock's RI MODE switch to "HDD" or "HDD/DOCK".
- Set the AV receiver's Input Display to "**DOCK**" (→ [page 53](#)).

### ■ System Function

#### System On

When you turn on the AV receiver, the RI Dock and iPod/iPhone turn on automatically. In addition, when RI Dock and iPod/iPhone are on, the AV receiver can be turned on by pressing **SOURCE**.

#### Auto Power On

If you press the remote controller's **▶** (Playback) while the AV receiver is on standby, the AV receiver will automatically turn on, select your iPod/iPhone as the input source, and your iPod/iPhone will start playback.

### Direct Change

If you start iPod/iPhone playback while listening to another input source, the AV receiver will automatically switch to the input to which the RI Dock is connected.

### Other Remote Operations

You can use the remote controller that came with the AV receiver to control other iPod/iPhone functions. The available functionality depends on the AV receiver.

#### Note

- If you use your iPod/iPhone with any other accessories, iPod/iPhone playback detection may not work.
- The System On function may not work depending on the RI Dock.

### iPod Alarm

If you use the Alarm function on your iPod to start playback, the AV receiver will turn on at the specified time and select your iPod as the input source automatically.

#### Note

- Depending on your iPod/iPhone model and generation, some of the linked operations may not be available.
- This linked operation won't work while a video is being played or when the sound set for the alarm is a built-in sound (Beep).
- This linked operation won't work with models on which music files cannot be used to set the alarm sound.

### ■ Operating Notes

- Use the AV receiver's volume control to adjust the playback volume.
- While your iPod/iPhone is inserted in the RI Dock, its volume control has no effect.
- If you do adjust the volume control on your iPod/iPhone while it's inserted in the RI Dock, be careful that it's not set too loud before you reconnect your headphones.

The Dock is sold separately. Models sold are different depending on the region.

For the latest information on the Onkyo Dock components, see the Onkyo web site at: <http://www.onkyo.com>

Before using the Onkyo Dock components, update your iPod/iPhone with the latest software, available from the Apple web site.

For supported iPod/iPhone models, see the instruction manual of the Onkyo Dock.



## Controlling Your iPod/iPhone

By pressing the **REMOTE MODE** button that's been programmed with the remote control code for your Dock, you can control your iPod/iPhone in the Dock with the buttons described further in this section.

See "Entering Remote Control Codes" for details on entering a remote control code (→ [page 82](#)).

See the Dock's instruction manual for more information.

### RI Dock

- Set the RI Dock's RI MODE switch to "HDD" or "HDD/DOCK".
- **SOURCE** may not work with a remote control code (without **RI**). In this case, make an **RI** connection and enter the remote control code **81993** (with **RI**).

#### ■ With the RI Control

Make an **RI** connection and enter the remote control code **81993** (with **RI**).

- Set the AV receiver's Input Display to "DOCK" (→ [page 53](#)).

#### ■ Without the RI Control

You must enter the remote control code **82990** first (→ [page 83](#)).



### ■ RI Dock operation

Available buttons			
①	TOP MENU* <sup>1</sup>	⑤	DISPLAY* <sup>2</sup>
②	▲/▼/◀/▶, ENTER	⑥	⏻SOURCE* <sup>3</sup>
	PLAYLIST ◀/▶	⑦	MUTING
③	▶▶, II, ■, ◀◀, ▶▶, ◀◀, ▶▶▶	⑧	ALBUM +/-
		⑨	VOL ▲/▼
④	REPEAT	⑩	MENU
	RANDOM	⑪	MODE* <sup>4</sup>

- With some iPod/iPhone models, generations and RI Docks, certain buttons may not work as expected.
- For detailed operation of iPod/iPhone, please refer to the instruction manual of the RI Dock.

\*1 **TOP MENU** works as the mode button when used with the DS-A2 RI Dock.

\*2 **DISPLAY** turns on the backlight for a few seconds.

\*3 This button does not turn the Onkyo DS-A2 or DS-A2X RI Dock on or off. Also, your iPod/iPhone may not respond the first time you press this button, in which case you should press it again. This is because the remote controller transmits the On and Standby commands alternately, so if your iPod/iPhone is already on, it will remain on when the remote controller transmits the On command. Similarly, if your iPod/iPhone is already off, it will remain off when the remote controller transmits the Off command.

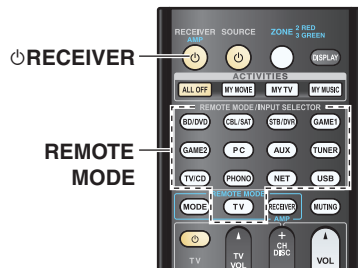
\*4 **Resume mode**

With the Resume function, you can resume playback of the song that was playing when you removed your iPod/iPhone from the Onkyo DS-A2 RI Dock.

## Learning Commands

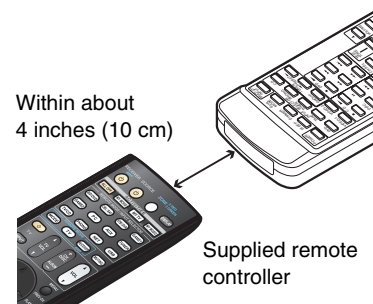
The AV receiver's remote controller can learn the commands of other remote controllers. By transmitting, for example, the Play command from your CD player's remote controller, the supplied remote controller can learn it and then reproduce the exact same command when its **▶** is pressed in CD remote mode.

This is useful when some buttons don't work as expected though you entered the appropriate remote control code (→ [page 82](#)).



- 1** While holding down the **REMOTE MODE** button for the mode in which you want to use the command, press and hold down **RECEIVER** until the **REMOTE MODE** button lights (about 3 seconds).
- 2** On the supplied remote controller, press the button to which you want to assign the new command.
- 3** Point the remote controllers at each other, within about 4 inches (10 cm) apart, and then press and hold the button whose command you want to acquire until the **REMOTE MODE** button flashes.

If the command is learned successfully, the **REMOTE MODE** button flashes twice.



- 4** To learn more commands, repeat steps 2 and 3.

Press any **REMOTE MODE** button when you've finished. The **REMOTE MODE** button flashes twice.

### Note

- The following buttons cannot learn new commands: **RECEIVER**, **ALL OFF**, **MY MOVIE**, **MY TV**, **MY MUSIC**, **REMOTE MODE**, **MODE**.
- The remote controller can learn approximately 70 to 90 commands, although this will be less if commands that use a lot of memory are learned.
- Remote controller buttons such as Play, Stop, and Pause are preprogrammed with commands for controlling Onkyo CD players, cassette decks, and DVD players. However, they can learn new commands, and you can restore the preprogrammed commands at any time by resetting the remote controller (→ [page 84](#)).
- To overwrite a previously acquired command, repeat this procedure.
- Depending on the remote controller used, some buttons may not respond as expected, or the learning process itself may not be possible.
- Only commands from infrared remote controllers can be acquired.

- When the remote controller runs out of batteries, all commands acquired will be lost and will have to be learned all over again. Therefore, do not discard your other remote controllers.

### ■ Deleting Acquired Commands

1. While holding down the **REMOTE MODE** button for the mode from which you want to delete a command, press and hold down **TV** until the **REMOTE MODE** button lights (about 3 seconds).
2. Press the **REMOTE MODE** button or the button from which you want to delete the command. The **REMOTE MODE** button flashes twice. When you press the **REMOTE MODE** button, all commands learned in that mode will be deleted.

## Using Normal Macros

You can program the remote controller's **ACTIVITIES** to perform a sequence of remote control actions.

### Example:

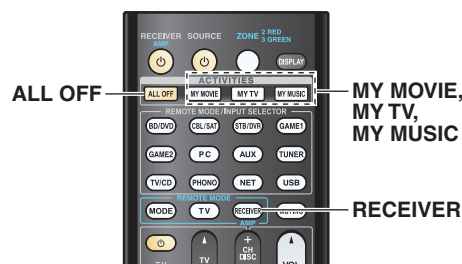
To play a CD you typically need to perform the following actions:

1. Press **RECEIVER** to select the Receiver remote controller mode.
2. Press **RECEIVER** to turn on the AV receiver.
3. Press **TV/CD** to select the TV/CD input source.
4. Press **▶** to start playback on the CD player.

You can program **ACTIVITIES** so that all four actions are performed with just one button press.

## Making Macros

Each **ACTIVITIES** can store one macro, and each macro can contain up to 32 commands.



- 1 While holding down **RECEIVER**, press and hold down **MY MOVIE**, **MY TV**, or **MY MUSIC** until **MY MOVIE**, **MY TV**, or **MY MUSIC** lights (about 3 seconds).
- 2 Press the buttons whose actions you want to program into the macro in the order you want them performed.

For the CD example above, you would press the following buttons: **RECEIVER**, **TV/CD**, **▶**.

- 3 When you've finished, press **ACTIVITIES** again.

**ACTIVITIES** button flashes twice.

If you enter 32 commands, the process will finish automatically.

### Note

- **MODE** cannot be operated during the macro-making process.
- Once you assign new macro commands, the previously registered macro will no longer work. If you wish to retrieve it, you will have to reassign the commands with the macro-making.

## Running Macros

- 1 Press **MY MOVIE**, **MY TV**, or **MY MUSIC**.

The commands in the macro are transmitted in the order in which they were programmed. Keep the remote controller pointed at the AV receiver until all of the commands have been transmitted. Macros can be run at any time, regardless of the current remote controller mode.

## Deleting Macros

- 1 While holding down **HOME**, press and hold down **ALL OFF** until **ALL OFF** lights (about 3 seconds).
- 2 Press **ALL OFF** again. **ALL OFF** flashes twice.

### Note

- When Normal macros are deleted, **ACTIVITIES** are restored to their default settings, namely the Easy macro commands (→ page 54).
- When using Normal macros, Easy macros cannot be used, which includes changing the source components.

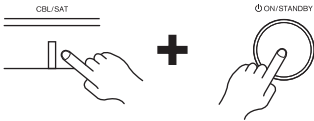
# Troubleshooting

If you have any trouble using the AV receiver, look for a solution in this section. If you can't resolve the issue yourself, contact your Onkyo dealer.

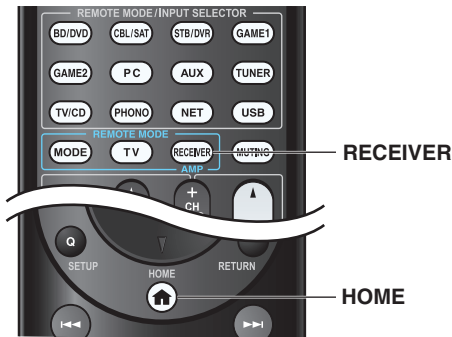
## Resetting the AV receiver

If you can't resolve the issue yourself, try resetting the AV receiver before contacting your Onkyo dealer.

To reset the AV receiver to its factory defaults, turn it on and, while holding down **CBL/SAT**, press **ON/STANDBY**. "**Clear**" will appear on the AV receiver's display and the AV receiver will enter standby mode.



Note that resetting the AV receiver will delete your radio presets and custom settings.



To reset the remote controller to its factory defaults, while holding down **RECEIVER**, press and hold down **HOME** until **RECEIVER** lights (about 3 seconds). Within 30 seconds, press **RECEIVER** again.

The on-screen information appears only on a TV that is connected to HDMI outputs.

## Power

### Can't turn on the AV receiver

Make sure that the power cord is properly plugged into the wall outlet.

Unplug the power cord from the wall outlet, wait five seconds or more, then plug it in again.

### The AV receiver turns off unexpectedly

The AV receiver will automatically enter standby mode when Auto Standby has been set and launches. (→ [page 76](#))

### The AV receiver turns off and after restoring the power, it turns off again

The protection circuit has been activated. Remove the power cord from the wall outlet immediately. Make sure that all speaker cables and input sources are properly connected, and leave the AV receiver with its power cord disconnected for 1 hour. After that, reconnect the power cord and turn the power on. If the AV receiver turns off again, avoid resetting it and unplug the power cord. Then contact your Onkyo dealer. (→ [page 16](#))

### Caution:

- If "**CHECK SP WIRE**" appears on the AV receiver's display, the speaker cables may be shorting.

### WARNING:

- If smoke, smell or abnormal noise is produced by the AV receiver, unplug the power cord from the wall outlet immediately and contact your Onkyo dealer.

## Audio

### There's no sound, or it's very quiet

Make sure that the digital input source is selected properly. (→ [page 63](#))

Make sure that all audio connecting plugs are pushed in all the way (→ [page 18](#)).

Make sure that the inputs and outputs of all components are connected properly. (→ [pages 18 to 23](#))

Make sure that the polarity of the speaker cables is correct, and that the bare wires are in contact with the metal part of each speaker terminal. (→ [page 16](#))

Make sure that the input source is properly selected. (→ [page 32](#))

Make sure that the speaker cables are not shorting. (→ [page 16](#))

Check the volume. The AV receiver is designed for home theater enjoyment. It has a wide volume range, allowing precise adjustment.

If the **MUTING** indicator is flashing on the AV receiver's display, press the remote controller's **MUTING** button to unmute the AV receiver. (→ [page 53](#))

While a pair of headphones is connected to the **PHONES** jack, no sound is output from the speakers. (→ [page 23](#))

If there's no sound from a DVD player connected to an HDMI IN, check the DVD player's output settings, and be sure to select a supported audio format.

Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off.

With some DVD-Video discs, you need to select an audio output format from a menu.

If your turntable uses an MC cartridge, you must connect an MC head amp, or an MC transformer.

Make sure that none of the connecting cables are bent, twisted, or damaged.

Not all listening modes use all speakers. (→ [page 44](#))

Specify the speaker distances and adjust the individual speaker levels. (→ [page 65](#))

Make sure that the speaker setup microphone is not still connected.



If the input signal format is set to “PCM” or “DTS”. Set it to “Off”. (→ [page 72](#))

### ■ Only the front speakers produce sound

When the Stereo or Mono listening mode is selected, only the front speakers and subwoofer produce sound. (→ [page 46](#))

In the Mono listening mode, only the front speakers output sound if the “Output Speaker” setting is set to “Left / Right”. (→ [page 67](#))

Make sure the speakers are configured correctly. (→ [page 63](#))

### ■ Only the center speaker produces sound

If you use the Dolby Pro Logic IIx Movie, Dolby Pro Logic IIx Music, or Dolby Pro Logic IIx Game listening mode with a mono source, such as an AM radio station or mono TV program, the sound is concentrated in the center speaker.

In the Mono listening mode, only the center speaker output sound if the “Output Speaker” setting is set to “Center”. (→ [page 67](#))

Make sure the speakers are configured correctly. (→ [page 63](#))

### ■ The surround speakers produce no sound

When the T-D (Theater-Dimensional), Stereo or Mono listening mode is selected, the surround speakers produce no sound.

Depending on the source and current listening mode, not much sound may be produced by the surround speakers. Try selecting another listening mode. (→ [page 44](#))

Make sure the speakers are configured correctly. (→ [page 63](#))

### ■ The center speaker produces no sound

When the Stereo or Mono listening mode is selected, the center speaker produces no sound.

In the Mono listening mode, only the front speakers output sound if the “Output Speaker” setting is set to “Left / Right”. (→ [page 67](#))

Make sure the speakers are configured correctly. (→ [page 63](#))

### ■ The front high, front wide and surround back speakers produce no sound

Depending on the current listening mode, no sound may be produced by the front high, front wide and surround back speakers. Select another listening mode. (→ [page 44](#))

Depending on the sources, the sound produced by the front high, front wide and surround back speakers may be weak.

Make sure the speakers are configured correctly. (→ [page 64](#))

When Powered Zone 2 is used, playback in the main room is reduced to 5.1 channels and the front high, front wide and surround back speakers produce no sound.

### ■ The subwoofer produces no sound

When you play source material that contains no information in the LFE channel, the subwoofer produces no sound.

Make sure the speakers are configured correctly. (→ [page 63](#))

### ■ There’s no sound with a certain signal format

Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off.

With some DVD-Video discs, you need to select an audio output format from a menu.

Depending on the input signal, some listening modes cannot be selected. (→ [pages 44 to 51](#))

### ■ Can’t select the Pure Audio listening mode

The Pure Audio listening mode cannot be selected while Zone 2/3 is on.

### ■ Can’t get 6.1/7.1 playback

If no surround back speakers, front wide speakers and front high speakers are connected, or the Zone 2 speakers are being used, 6.1/7.1 playback is not possible.

Depending on the number of connected speakers, it is not always possible to select all of the listening modes. (→ [pages 44 to 51](#))

### ■ The speaker volume cannot be set as required

Check to see if a maximum volume has been set. (→ [page 73](#))

If the volume level of each individual speaker has been adjusted to high positive values, then the maximum master volume possible may be reduced. Note that the individual speaker volume levels are set automatically after the Audyssey MultEQ® Room Correction and Speaker Setup has been performed. (→ [pages 27, 65](#))

### ■ Noise can be heard

Using cable ties to bundle audio cables with power cords, speaker cables, and the like may degrade the audio performance, so refrain from doing it.

An audio cable may be picking up interference. Try repositioning your cables.

### ■ The Late Night function doesn’t work

Make sure the source material is Dolby Digital, Dolby Digital Plus, and Dolby TrueHD. (→ [page 58](#))

Make sure that the “TrueHD Loudness Management” setting is not set to “Off”. The Late Night function doesn’t work when this setting is disabled. (→ [page 68](#))

### ■ About DTS signals

When DTS program material ends and the DTS bitstream stops, the AV receiver remains in DTS listening mode and the **dts** indicator remains on. This is to prevent noise when you use the pause, fast forward, or fast reverse function on your player. If you switch your player from DTS to PCM, you may not hear any sound because the AV receiver does not switch formats immediately. In such case, you should stop your player for about three seconds and then resume playback.

With some CD and LD players, you won’t be able to playback DTS material properly even though your player is connected to a digital input on the AV receiver. This is usually because the DTS bitstream has been processed (e.g., output level, sampling rate, or frequency response changed) and the AV receiver doesn’t recognize it as a genuine DTS signal. In such cases, you may hear noise.

Playing DTS program material, using the pause, fast forward, or fast reverse function on your player may produce a short audible noise. This is not a malfunction.





### ■ The beginning of audio received by an HDMI IN can't be heard

Since it takes longer to identify the format of an HDMI signal than it does for other digital audio signals, audio output may not start immediately.

### ■ There's no sound during Whole House Mode

Make sure you've selected an analog audio input.

## Video

### ■ There's no picture

Make sure that all video connecting plugs are pushed in all the way. (→ [page 21](#))

Make sure that each video component is properly connected. (→ [page 18](#))

If your TV is connected to the HDMI output(s), select "----" in the "HDMI Input" setting to watch composite video, and component video sources. (→ [page 62](#))

If the video source is connected to a component video input, you must assign that input to an input selector, and your TV must be connected to either the HDMI output(s) or **COMPONENT VIDEO OUT**. (→ [pages 18, 63](#))

If the video source is connected to a composite video input, your TV must be connected to the HDMI output(s) or the corresponding composite video output. (→ [page 18](#))

If the video source is connected to an HDMI input, you must assign that input to an input selector, and your TV must be connected to the HDMI output(s). (→ [pages 18, 62](#))

While the Pure Audio listening mode is selected, the analog video circuitry is turned off and only video signals input through **HDMI IN** can be output. (→ [page 44](#))

On your TV, make sure that the video input to which the AV receiver is connected is selected.

When the "Monitor Out" setting is set to "Both", the "HDMI Through" setting is only available for the **HDMI OUT MAIN** jack. (→ [pages 61, 75](#))

### ■ There's no picture from a source connected to an HDMI IN

Reliable operation with an HDMI-to-DVI adapter is not guaranteed. In addition, video signals from a PC are not guaranteed. (→ [page 102](#))

When the resolution is set to any resolution not supported by the TV, no video is output from the HDMI outputs. (→ [page 61](#))

If the message "Resolution Error" appears on the AV receiver's display, this indicates that your TV does not support the current video resolution and you need to select another resolution on your DVD player.

### ■ The on-screen menus don't appear

On your TV, make sure that the video input to which the AV receiver is connected is selected.

When the AV receiver is not connected to a TV via **HDMI OUT MAIN**, on-screen menus are not displayed.

### ■ The on-screen information does not appear

Depending on the input signal, the on-screen information may not appear when the input signal from **HDMI IN** is output to a device connected to the HDMI output.

## Tuner

### ■ Reception is noisy, FM stereo reception is noisy, or the FM STEREO indicator doesn't light

Relocate your antenna.

Move the AV receiver away from your TV or computer.

Listen to the station in mono. (→ [page 41](#))

When listening to an AM station, operating the remote controller may cause noise.

Passing cars and airplanes can cause interference.

Concrete walls weaken radio signals.

If nothing improves the reception, install an outdoor antenna.

## Remote Controller

### ■ The remote controller doesn't work

Before operating this unit, be sure to press **RECEIVER**.

Make sure that the batteries are installed with the correct polarity. (→ [page 13](#))

Install new batteries. Don't mix different types of batteries, or old and new batteries. (→ [page 13](#))

Make sure that the remote controller is not too far away from the AV receiver, and that there's no obstruction between the remote controller and the AV receiver's remote control sensor. (→ [page 13](#))

Make sure that the AV receiver is not subjected to direct sunshine or inverter-type fluorescent lights. Relocate if necessary.

If the AV receiver is installed in a rack or cabinet with colored-glass doors, the remote controller may not work reliably when the doors are closed.

Make sure you've selected the correct remote controller mode. (→ [pages 12, 84](#))

When using the remote controller to control other manufacturers' AV components, some buttons may not work as expected.

Make sure you've entered the correct remote control code. (→ [page 82](#))

Make sure to set the same ID on both the AV receiver and remote controller. (→ [page 78](#))

### ■ Can't control other components

If it's an Onkyo component, make sure that the **RI** cable and analog audio cable are connected properly.

Connecting only an **RI** cable won't be enough. (→ [page 23](#))

Make sure you've selected the correct remote controller mode. (→ [pages 12, 84](#))

If you've connected a cassette tape deck to the **TV/CD IN** jack, or an **RI Dock** to the **TV/CD IN** or **GAME 1 IN** jacks, for the remote controller to work properly, you must set the input display appropriately. (→ [page 53](#))

If you cannot operate it, you will need to enter the appropriate remote control code. (→ [page 82](#))

To control another manufacturer's component, point the remote controller at that component. (→ [page 82](#))

To control an Onkyo component that's connected via **RI**, point the remote controller at the AV receiver. Be sure to enter the appropriate remote control code first. (→ [page 83](#))

To control an Onkyo component that's not connected via **RI**, point the remote controller at the component. Be sure to enter the appropriate remote control code first. (→ [page 83](#))



The entered remote control code may not be correct. If more than one code is listed, try each one.

### ■ Can't learn commands from another remote controller

When learning commands, make sure that the transmitting ends of both remote controllers are pointing at each other. (→ [page 89](#))

Are you trying to learn from a remote controller that cannot be used for learning? Some commands cannot be learned, especially those that contain several instructions.

## RI Dock for iPod/iPhone

### ■ There's no sound

Make sure your iPod/iPhone is actually playing.

Make sure your iPod/iPhone is properly inserted in the Dock.

Make sure the AV receiver is turned on, the correct input source is selected, and the volume is turned up.

Make sure the plugs are pushed in all the way.

Try resetting your iPod/iPhone.

### ■ There's no video

Make sure that your iPod/iPhone model's TV OUT setting is set to On.

Make sure the correct input is selected on your TV or the AV receiver.

Some versions of the iPod/iPhone do not output video.

### ■ The AV receiver's remote controller doesn't control my iPod/iPhone

Make sure your iPod/iPhone is properly inserted in the Dock. If your iPod/iPhone is in a case, it may not connect properly to the Dock. Always remove your iPod/iPhone from the case before inserting it into the Dock.

The iPod/iPhone cannot be operated while it's displaying the Apple logo.

Make sure you've selected the right remote mode.

(→ [page 88](#))

When you use the AV receiver's remote controller, point it toward your AV receiver.

If you still can't control your iPod/iPhone, start playback by pressing your iPod/iPhone model's Play button. Remote operation should then be possible.

Try resetting your iPod/iPhone.

Depending on your iPod/iPhone, some buttons may not work as expected.

### ■ The AV receiver unexpectedly selects my iPod/iPhone as the input source

Always pause iPod/iPhone playback before selecting a different input source. If playback is not paused, the Direct Change function may select your iPod/iPhone as the input source by mistake during the transition between tracks.

### ■ iPod/iPhone doesn't work properly

Try reconnecting your iPod/iPhone.

## Zone 2/3

### ■ There's no sound

Audio can be output only when analog, **NET** or **USB** input source is selected in Zone 2/3.

### ■ The Zone 2 speakers produce no sound

Powered Zone 2 cannot be used if "Speakers Type(Front)" is set to "Bi-Amp". (→ [page 64](#))

## Wi-Fi (Wireless LAN) Network

### ■ Cannot access to Wi-Fi (Wireless LAN) network or Sound playback is interrupted and communication doesn't work

The setting of SSID and encryption (WEP, etc.) is not correct. Make the same settings for network and the AV receiver.

Cannot receive radio wave due to a bad connection. Shorten the distance from wireless LAN access point or remove obstacles for a good visibility, and try again. Place the AV receiver away from microwave ovens or other access points.

2.4 GHz band for wireless LAN may not be enough. Connect the **ETHERNET** port and router with the Ethernet cable after selecting "Wired" in "Network Connection" setting in "Network". (→ [pages 19, 77](#))

Place the AV receiver away from the devices emitting electromagnetic waves on the 2.4 GHz band (microwave ovens, game consoles, etc.). If this does not solve the problem, stop using other devices which emit electromagnetic waves.

When other wireless LAN devices are used near the AV receiver, several issues such as interrupted playback and communication may occur. You can avoid these issues by changing the channel of your Wi-Fi router. For instructions on changing channels, see the instruction manual provided with your Wi-Fi router.

If there is a metallic object near the AV receiver, wireless LAN connection may not be possible as the metal can effect on the radio wave.

If there is more than one access point in the network, separate each access point.

It is recommended to place the Wi-Fi router (access point) and the AV receiver in the same room.

## Bluetooth

### ■ Music playback is unavailable on the AV receiver even after successful Bluetooth connection.

Depending on the characteristics or specifications of your Bluetooth-enabled device, playback on the AV receiver is not guaranteed.

### ■ The audio quality is poor after connection with a Bluetooth-enabled device.

The Bluetooth reception is poor. Move the Bluetooth-enabled device closer to the AV receiver or remove any obstacle between the Bluetooth-enabled device and the AV receiver.

### ■ Cannot connect with the AV receiver.

The Bluetooth-enabled device does not support the profiles required for the AV receiver.

The Bluetooth function of the Bluetooth-enabled device is not enabled. Refer to the instruction manual of the Bluetooth-enabled device for how to enable the function.



### ■ Bluetooth connection cannot be built

When building a Bluetooth connection between the AV receiver and your Bluetooth-enabled device for the first time, if the connection is fail, you need to power off your Bluetooth-enabled device and power on again to clear the device name, and build the connection again.

If there is metallic object near the AV receiver, Bluetooth connection may not be possible as the metal can effect on the radio wave.

If the wireless LAN and Bluetooth connections are used at the same time, try to connect the **ETHERNET** port and router with the Ethernet cable after selecting “Wired” in “Network Connection” setting in “Network” for a better connection. (→ [pages 19, 77](#))

## Music Server and Internet Radio

### ■ Can't access the server or Internet radio

Certain network service or contents available through this device may not be accessible in case the service provider terminates its service.

Check the network connection between the AV receiver and your router or switch. (→ [page 19](#))

Make sure that your modem and router are properly connected, and make sure they are both turned on.

Make sure the server is up and running and compatible with the AV receiver. (→ [page 103](#))

Check the “Network” settings. (→ [page 77](#))

### ■ Playback stops while listening to music files on the server

Make sure your server is compatible with the AV receiver. (→ [page 103](#))

If you download or copy large files on your computer, playback may be interrupted. Try closing any unused programs, use a more powerful computer, or use a dedicated server.

If the server is serving large music files to several networked devices simultaneously, the network may become overloaded and playback may be interrupted. Reduce the number of playback devices on the network, upgrade your network, or use a switch instead of a hub.

### ■ Can't connect to the AV receiver from a Web browser

If you're using DHCP, your router may not always allocate the same IP address to the AV receiver, so if you find that you can't connect to a server or Internet radio station, recheck the AV receiver's IP address on the “Network” screen. (→ [page 77](#))

Check the “Network” settings. (→ [page 77](#))

## USB Device Playback

### ■ Can't access the music files on a USB device

Make sure the USB device is plugged in properly.

The AV receiver supports USB devices that support the USB mass storage device class. However, playback may not be possible with some USB devices even if they conform to the USB mass storage device class. (→ [page 103](#))

Depending on the type of format, the playback from a USB device may not be performed normally. Check the type of the file formats that is supported. (→ [page 104](#))

USB memory devices with security functions cannot be played.

## Others

### ■ Standby power consumption

In the following cases, the power consumption in standby mode may reach up to a maximum of 8.6 W:

- The “HDMI CEC (RIHD)” setting is set to “On”.  
(Depending on the TV status, the AV receiver will enter standby mode as usual.)
- The “HDMI Through” setting is set to other than “Off”.
- The “Network Standby” setting is set to “On”.

(→ [pages 74, 75, 77](#))

If an MHL-enabled mobile device connected to the AUX (front) input is charged, the power consumption in standby mode will increase than the figure above. (→ [page 19](#))

### ■ The sound changes when I connect my headphones

When a pair of headphones is connected, the listening mode is set to Stereo, unless it's already set to Stereo, Mono, Direct, or Pure Audio.

### ■ The speaker distance cannot be set as required

The values entered may be automatically adjusted with values best-suited for your home theater.

### ■ The display doesn't work

The display is turned off when the Pure Audio listening mode is selected.

### ■ How do I change the language of a multiplex source

Use the “Multiplex” setting in the “Audio Adjust” menu to select “Main” or “Sub”. (→ [page 67](#))

### ■ The RI functions don't work

To use **RI**, you must make an **RI** connection and an analog audio connection (RCA) between the component and AV receiver, even if they are connected digitally. (→ [page 23](#))

While Zone 2/3 is selected, the **RI** functions don't work. (→ [page 23](#))

### ■ The functions System On/Auto Power On and Direct Change don't work for components connected via RI

These functions don't work when Zone 2/3 is turned on. (→ [page 23](#))

### ■ When performing “Automatic Speaker Setup”, the measurement fails and the message “Ambient noise is too high.” is displayed.

This can be caused by a malfunction in your speaker unit. Check if the unit produces normal sounds.

### ■ The following settings can be made for the composite video inputs

You must use the buttons on the unit to make these settings.

On the AV receiver, press the input selector for the input source that you want to set and the **HOME**



button simultaneously. While holding down the input selector button, press **HOME** until “**Video ATT :On**” appears on the AV receiver’s display. Then, release both buttons. To turn the setting off, repeat the above process so that “**Video ATT :Off**” appears on the AV receiver’s display, and release the buttons.

#### • Video Attenuation

This setting can be made for the **BD/DVD**, **CBL/SAT**, **STB/DVR**, **GAME 1** or **AUX** input.

If you have a game console connected to the composite video input, and the picture isn’t very clear, you can attenuate the gain.

**Video ATT :Off**: (default).

**Video ATT :On**: Gain is reduced by 2 dB.

#### ■ If the picture on your TV/monitor connected to the HDMI output(s) is unstable, try switching the DeepColor function off

To turn off the DeepColor function, simultaneously press the **STB/DVR** and **ON/STANDBY** buttons on the AV receiver. While holding down **STB/DVR**, press **ON/STANDBY** until “**Deep Color:Off**” appears on the AV receiver’s display. Then, release both buttons. To reactivate the DeepColor function, repeat the above process until “**Deep Color:On**” appears on the AV receiver’s display and release the buttons.

### Radio Wave Caution

The AV receiver uses a 2.4 GHz radio wave frequency, which is a band used by other wireless systems as 1 and 2 described below.

#### 1. Devices which use a 2.4 GHz radio wave frequency

- Cordless phones
- Cordless facsimiles
- Microwave ovens
- Wireless LAN devices (IEEE802.11b/g/n)
- Wireless AV equipment
- Wireless controllers for game systems
- Microwave oven-based health aids
- Video transmitter
- Specific type of external monitor and LCD display

#### 2. Less common devices which use a 2.4 GHz radio wave frequency

- Anti-theft systems
- Amateur radio stations (HAM)
- Warehouse logistic management systems
- Discrimination systems for train or emergency vehicles

If these devices and the AV receiver are used at the same time, the audio may be undesirably stopped or disturbed due to a radio wave interference.

Suggestions for improvement

- Switch off the devices which emit the radio wave.
- Place the interfering devices away from the AV receiver.
- The AV receiver uses radio wave, and a third person can receive the wave on purpose or accidentally. Do not use the communication for important or fatal matters.

- We assume no responsibility whatsoever for any error or damage of network environment or access device resulting from the use of this apparatus. Confirm with the provider or access device maker for more information.

### Scope of Operation

Use of the AV receiver is limited to home use. (Transmission distances may be reduced depending on communication environment.)

**In the following locations, poor condition or inability to receive radio waves may cause the audio to be interrupted or stopped:**

- In reinforced concrete buildings or steel framed or iron framed buildings.
- Near large metallic furniture.
- In a crowd of people or near a building or obstacle.
- In a location exposed to the magnetic field, static electricity or radio wave interference from radio communication equipment using the same frequency band (2.4 GHz) as the AV receiver, such as a 2.4 GHz wireless LAN device (IEEE802.11b/g/n) or microwave oven.
- If you live in a heavily populated residential area (apartment, townhouse, etc.) and if your neighbor’s microwave oven is placed near your AV receiver, you may experience radio wave interference. If this occurs, move your AV receiver to a different place. When the microwave oven is not in use, there will be no radio wave interference.



## Radio Wave Reflections

The radio waves received by the AV receiver include the radio wave coming directly from the devices and waves coming from various directions due to reflections by walls, furniture and building (reflected waves). The reflected waves (due to obstacles and reflecting objects) further produce a variety of reflected waves as well as variation in reception condition depending on locations. If the audio cannot be received properly due to this phenomenon, try moving the location of the wireless LAN device a little. Also note that audio may be interrupted due to the reflected waves when a person crosses or approaches the space between the AV receiver and the wireless LAN device.

- We assume no responsibility whatsoever for any damages resulting from the use of this apparatus except in the cases deemed acceptable under the applicable laws and regulations.
- Operation in all environment is not guaranteed for wireless LAN. The communication may not be possible or have desirable communication speed.

## Precautions

- Do not use this apparatus near an electronic device handling high-accuracy controls or weak signals. Doing so may cause an accident due to a malfunction of the device.
- Do not use this apparatus in use prohibited location such as an aircraft equipment or a hospital. Doing so may cause an accident due to a malfunction of an electronic device or an electro-medical apparatus. Follow the instructions of the medical facilities.

### ■ Electronic device which requires cautions

Hearing aid, pace maker, other medical electronic devices, fire alarm, automatic door, and other automatic control device.

When using a pace maker or other medical electronic devices, confirm with the medical electronic device maker or dealer for the effect of the radio wave.

The AV receiver contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least five seconds, and then plug it back in.

Onkyo is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

Before disconnecting the power cord from the wall outlet, set the AV receiver to standby.



## DISCLAIMER

Through this device you are able to link to other services or websites which are not under the control of any company which has designed, manufactured or distributed/have distributed this device, and its affiliates (collectively, "Company"). We have no control over the nature, content and availability of those services. The inclusion of any links does not necessarily imply a recommendation or endorse the views expressed within them.

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Any question or request for service relating to the information, content or services should be made directly to the appropriate content owners and services providers.

## Video Resolution Chart

The following tables show how video signals at different resolutions are output by the AV receiver.

✓: Output available

Input	Output	HDMI						
		4K <sup>1</sup>	1080p/24	1080p	1080i	720p	480p/576p	480i/576i
HDMI	4K <sup>2</sup>	✓ <sup>3</sup>						
	1080p/24	✓	✓ <sup>3</sup>					
	1080p	✓		✓ <sup>3</sup>				
	1080i	✓		✓	✓ <sup>3</sup>	✓		
	720p	✓		✓	✓	✓ <sup>3</sup>		
	480p/576p	✓		✓	✓	✓	✓ <sup>3</sup>	
	480i/576i	✓		✓	✓	✓	✓	✓ <sup>3</sup>
Component	1080p							
	1080i							
	720p							
	480p/576p							
	480i/576i	✓		✓	✓	✓	✓	✓ <sup>3</sup>
Composite	480p/576i	✓		✓	✓	✓	✓	✓ <sup>3</sup>
	480i/576i	✓		✓	✓	✓	✓	✓ <sup>3</sup>

Input	Output	Component					Composite
		1080p	1080i	720p	480p/576p	480i/576i	480i/576i
HDMI	4K <sup>2</sup>						
	1080p/24						
	1080p						
	1080i						
	720p						
	480p/576p						
	480i/576i						
Component	1080p	✓					
	1080i		✓				
	720p			✓			
	480p/576p				✓		
	480i/576i					✓	
Composite	480p/576i						✓
	480i/576i						✓

\*1 Supported resolutions: [3840 × 2160 30 Hz], [3840 × 2160 25 Hz], [3840 × 2160 24 Hz], [4096 × 2160 24 Hz]

\*2 The AV receiver is compatible with **HDMI IN 1** to **HDMI IN 4**. However, the number of the player that outputs video signal at 4K resolution or the same level at the same time may be up to three.

\*3 Supported resolutions for **HDMI OUT SUB**.



# Firmware Update

To update the firmware of the AV receiver, you can choose from the following two methods: update via network, or update via USB storage. Choose the one that best suits your environment. Before proceeding with the update, please read the corresponding explanations carefully.

## ■ Update via network

You need a Internet connection to update the firmware.

## ■ Update via USB storage (→ page 100)

Please prepare a USB storage device such as a USB flash memory stick. You need at least 32 MB of available space to update the firmware.

### Note

- Check the network connection before updating.
- Do not touch any cable or device connected to the AV receiver during the update process.
- Do not attempt to access the AV receiver from your PC while it is being updated.
- Do not shutdown the power of the AV receiver while it is being updated.
- The storage media in the USB card reader may not work.
- If the USB device is partitioned, each section will be treated as an independent device.
- If the USB device contains a lot of data, the AV receiver may take a while to read it.
- Operation is not guaranteed for all USB devices, which includes the ability to power them.
- Onkyo takes no responsibility whatsoever for the loss or damage of data resulting from the use of a USB device with the AV receiver. Onkyo recommends that you back up your important music files beforehand.
- If you connect a USB hard disk drive to the USB port, Onkyo recommends that you use its AC adapter to power it.
- USB hubs and USB devices with hub functions are not supported. Do not connect your USB device via a USB hub.
- USB devices with security functions are not supported.

### Limitation of liability

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See the Onkyo web site for latest information.

## Updating the Firmware via Network

The AV receiver allows you to update the firmware using network connection.

### Note

- Make sure your AV receiver and TV are turned on and the AV receiver is connected to the Internet.
- Never unplug or turn off the AV receiver while it is being updated.
- Never plug or unplug an HDMI or Ethernet cable during the update process.
- Do not attempt to access the AV receiver from your PC while it is being updated.
- Never unplug the power cord during the update process.
- It takes up to 20 minutes to complete the firmware update.
- The AV receiver will retain all your settings after the update is finished.

## Before Starting

- Set the “HDMI CEC (RIHD)” setting to “Off” (→ page 74).
- Turn off the controller device connected via RS232 and network.
- Turn off Multi Zone if this function is present.
- Stop playback of contents from Internet Radio, USB or servers, etc.

## Update Procedure

- 1 Press RECEIVER followed by HOME on the remote controller.**  
The Home menu appears on the TV screen.
- 2 Select “Firmware Update” and press ENTER.**  
Note that the “Firmware Update” option will be grayed out for a short while after the AV receiver is turned on. Please wait until it becomes operable.
- 3 Select “Update via NET” and press ENTER.**  
Note that this option will not be available if there is no firmware file newer than the currently installed version. If the AV receiver is not connected to the internet, “Update via NET” is not displayed.
- 4 Select “Update” and press ENTER.**  
The update process will begin.  
During the update process, the on-screen display may disappear depending on the updated program. When this occurs, you can still view the update progress on the AV receiver’s display. The on-screen display will reappear after the update is complete, and upon turning the AV receiver off and on again.
- 5 The message “Completed!” appears on the AV receiver’s display, indicating that the update has been completed.**





## 6 Press **ON/STANDBY** on the front panel. The AV receiver will enter standby mode.

Do not use **RECEIVER** on the remote controller.

The AV receiver will enter standby mode automatically in 3 minutes regardless of whether **ON/STANDBY** is pressed.

Congratulations! You now have the latest firmware installed on your Onkyo AV receiver.

## Troubleshooting

### Case 1:

If an error occurs, “**Error!! \*-\*\***” is displayed on the AV receiver’s display. (Alpha-numeric characters on the front display are denoted by asterisks.) Refer to the following table and take appropriate action.

### ■ Errors during an update via network

Error Code	Description
*-01, *-10	The Ethernet cable was not detected. Reconnect the cable properly.
*-02, *-03, *-04, *-05, *-06, *-11, *-13, *-14, *-16, *-17, *-18, *-20, *-21	<p>Internet connection error. Check the following items:</p> <ul style="list-style-type: none"> <li>• Make sure the IP address, subnet mask, gateway address, and DNS server are configured properly.</li> <li>• Make sure the router is turned on.</li> <li>• Make sure the AV receiver and the router are connected with an Ethernet cable.</li> <li>• Make sure your router is configured properly. See the instruction manual of the router.</li> <li>• If your network allows only one client connection and there is any other device already connected, the AV receiver will not be able to access the network. Consult your Internet Service Provider (ISP).</li> <li>• If your modem does not function as a router, you will need a router. Depending on your network, you may need to configure the proxy server if necessary. See the document provided by your ISP. If you are still unable to access the Internet, the DNS or proxy server may be temporarily down. Contact your ISP.</li> </ul>
Others	Retry the update procedure from the beginning. If the error persists, please contact Onkyo Support and provide the error code.

### Case 2:

If an error occurs during the update process, disconnect then reconnect the AC power cord and try again.

### Case 3:

If you do not have an Internet connection to the network, please contact Onkyo Support.

## Updating the Firmware via USB

The AV receiver allows you to update the firmware using a USB device.

### Note

- Never unplug or turn off the AV receiver during the update process.
- Never plug or unplug an HDMI cable or a USB device during the update process.
- Never unplug the USB storage device containing the firmware file or the AC power cord during the update process.
- Do not attempt to access the AV receiver from your PC while it is being updated.
- It takes up to 20 minutes to complete the firmware update.
- The AV receiver will retain all your settings after the update is finished.

## Before Starting

- Set the “**HDMI CEC (RIHD)**” setting to “**Off**” (→ [page 74](#)).
- Turn off the controller device connected via RS232 and network.
- Turn off Multi Zone if this function is present.
- Stop playback of contents from Internet Radio, USB or servers, etc.
- If there is any data in the USB device, remove it first.



## Update Procedure

- 1 Connect a USB device to your PC. If there is any data in the USB device, remove it first.**
- 2 Download the firmware file from the Onkyo web site. The file name is as follows:  
ONKA VR\*\*\*\* \_\*\*\*\*\*.zip**  
Unzip the downloaded file. The numbers of folders and files differ according to the model.
- 3 Copy all the extracted folders including all folders and files to the root folder of the USB device. Be careful not to copy the zip file.**
- 4 Remove the USB device from your PC and connect it to the USB port on the AV receiver.**
- 5 Make sure the AV receiver and TV are turned on.**  
If the AV receiver is in standby mode, press **ON/STANDBY** on the AV receiver to light up the front display.
- 6 Select the USB input source.**  
“Now Initializing...” appears on the AV receiver’s display and then the name of the USB device is displayed. It takes 20 to 30 seconds to recognize the USB device.
- 7 Press RECEIVER followed by HOME on the remote controller.**  
The Home menu appears on the TV screen.
- 8 Select “Firmware Update” and press ENTER.**
- 9 Select “Update via USB” and press ENTER.**  
Note that this option will not be available if there is no firmware file newer than the currently installed version. If the AV receiver is not connected to the internet, “Update via USB” is not displayed.

### 10 Select “Update” and press ENTER.

The update process will begin.

During the update process, the on-screen display may disappear depending on the updated program. When this occurs, you can still view the update progress on the AV receiver’s display. The on-screen display will reappear after the update is complete, and upon turning the AV receiver off and on again.

Do not turn off the AV receiver and do not remove the USB device during the update process.

### 11 The message “Completed!” appears on the AV receiver’s display, indicating that the update has been completed. Remove the USB device.

### 12 Press **ON/STANDBY** on the front panel. The AV receiver will enter standby mode.

Do not use **RECEIVER** on the remote controller.

The AV receiver will enter standby mode automatically in 3 minutes regardless of whether **ON/STANDBY** is pressed.

Congratulations! You now have the latest firmware installed on your Onkyo AV receiver.

## Troubleshooting

### Case 1:

If an error occurs, “**Error!! \*-\*\***” is displayed on the AV receiver’s display. (Alpha-numeric characters on the front display are denoted by asterisks.) Refer to the following table and take appropriate action.

#### ■ Errors during an update via USB

Error Code	Description
*-01, *-10	The USB device was not detected. Make sure the USB flash memory or USB cable is properly connected to the USB port. If the USB storage device has its own power supply, use it to power the USB device.
*-05, *-13, *-20, *-21	The firmware file was not found in the root folder of the USB device, or the firmware file is for another model. Retry and download the file on the support page of the web site, following the on-site instructions. If the error persists, please contact Onkyo Support and provide the error code.
Others	Retry the update procedure from the beginning. If the error persists, please contact Onkyo Support and provide the error code.

### Case 2:

If an error occurs during the update process, disconnect then reconnect the AC power cord and try again.



# About HDMI

Designed to meet the increased demands of digital TV, HDMI (High Definition Multimedia Interface) is a new digital interface standard for connecting TVs, projectors, Blu-ray Disc/DVD players, set-top boxes, and other video components. Until now, several separate video and audio cables have been required to connect AV components. With HDMI, a single cable can carry control signals, digital video, and up to eight channels of digital audio (2-channel PCM, multichannel digital audio, and multichannel PCM).

The HDMI video stream (i.e., video signal) is compatible with DVI (Digital Visual Interface)<sup>\*1</sup>, so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (This may not work with some TVs and displays, resulting in no picture.)

The AV receiver uses HDCP (High-bandwidth Digital Content Protection)<sup>\*2</sup>, so only HDCP-compatible components can display the picture.

The AV receiver's HDMI interface is based on the following:

Audio Return Channel, 3D, x.v.Color, DeepColor, Lip Sync, 4K (up-scaling and Passthrough), DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus, DSD and Multichannel PCM.

## Supported Audio Formats

- 2-channel linear PCM (32–192 kHz, 16/20/24 bit)
- Multichannel linear PCM (up to 7.1 ch, 32–192 kHz, 16/20/24 bit)
- Bitstream (DSD, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution Audio, DTS-HD Master Audio)

Your Blu-ray Disc/DVD player must also support HDMI output of the above audio formats.

## About Copyright Protection

The AV receiver supports HDCP (High-bandwidth Digital Content Protection)<sup>\*2</sup>, a copy-protection system for digital video signals. Other devices connected to the AV receiver via HDMI must also support HDCP.

<sup>\*1</sup> DVI (Digital Visual Interface): The digital display interface standard set by the DDWG<sup>\*3</sup> in 1999.

<sup>\*2</sup> HDCP (High-bandwidth Digital Content Protection): The video encryption technology developed by Intel for HDMI/DVI. It's designed to protect video content and requires a HDCP-compatible device to display the encrypted video.

<sup>\*3</sup> DDWG (Digital Display Working Group): Lead by Intel, Compaq, Fujitsu, Hewlett Packard, IBM, NEC, and Silicon Image, this open industry group's objective is to address the industry's requirements for a digital connectivity specification for high-performance PCs and digital displays.

### Note

- The HDMI video stream is compatible with DVI (Digital Visual Interface), so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (Note that DVI connections only carry video, so you'll need to make a separate connection for audio.) However, reliable operation with such an adapter is not guaranteed. In addition, video signals from a PC are not supported.
- The HDMI audio signal (sampling rate, bit length, etc.) may be restricted by the connected source component. If the picture is poor or there's no sound from a component connected via HDMI, check its setup. Refer to the connected component's instruction manual for details.



# Network/USB Features

## Network Requirements

### ■ Ethernet Network

For the best results, a 100Base-TX switched Ethernet network is recommended. Although it's possible to play music on a computer that's connected to the network wirelessly, playback may be unreliable, so it is recommended to use wired connections.

### ■ Ethernet Router

A router manages the network, data-routing and supplying of IP addresses. Your router must support the following:

- NAT (Network Address Translation). NAT allows several networked computers to access the Internet simultaneously via a single Internet connection. The AV receiver needs Internet access for Internet radio.
- DHCP (Dynamic Host Configuration Protocol). DHCP supplies IP addresses to the network devices, allowing them to configure themselves automatically.
- A router with a built-in 100Base-TX switch is recommended.

Some routers have a built-in modem, and some Internet Service Providers (ISP) require you to use specific routers. Please consult your ISP or computer dealer if you're unsure.

### ■ CAT5 Ethernet cable

Use a shielded CAT5 Ethernet cable (straight-type) to connect the AV receiver to your home network.

### ■ Internet Access (for Internet radio)

To receive Internet radio, your Ethernet network must have Internet access. A narrowband Internet connection (e.g., 56K modem, ISDN) will not provide satisfactory results, so a broadband connection is strongly recommended (e.g., cable modem, xDSL

modem, etc.). Please consult your ISP or computer dealer if you're unsure.

### Note

- To receive Internet radio with the AV receiver, your broadband Internet connection must be working and able to access the Web. Consult your ISP if you have any problems with your Internet connection.
- The AV receiver uses DHCP to configure its network settings automatically. If you want to configure these settings manually, see "Network" (→ [page 77](#)).
- The AV receiver does not support PPPoE settings, so if you have a PPPoE-type Internet connection, you must use a PPPoE-compatible router.
- Depending on your ISP, you may need to specify a proxy server to use Internet radio. If your computer is configured to use a proxy server, use the same settings for the AV receiver (→ [page 77](#)).

## Server Requirements

### ■ Server playback

The AV receiver can play digital music files stored on a computer or media server and supports the following technologies:

- Windows Media Player 11
- Windows Media Player 12
- DLNA-certified media server
- The computer or media server must be on the same network as the AV receiver.
- Up to 20,000 folders can be displayed, and folders may be nested up to 16 levels deep.

### Note

- Depending on the media server, the AV receiver may not recognize it, or may not be able to play its music files.

### ■ Remote playback

- Windows Media Player 12
- DLNA-certified (within DLNA Interoperability Guidelines version 1.5) media server or controller device.

The setting varies depending on the media server or controller devices. Refer to your devices' instruction manual for details.

If the operating system of your personal computer is Windows 8/Windows 7, Windows Media Player 12 is already installed. For more information, see the Microsoft web site.

## USB Device Requirements

- USB mass storage device class (but not always guaranteed).
- FAT16 or FAT32 file system format.
- If the storage device has been partitioned, each section will be treated as an independent device.
- Up to 20,000 folders can be displayed, and folders may be nested up to 16 levels deep.
- USB hubs and USB devices with hub functions are not supported.

### Note

- If the media you connect is not supported, the message "No Storage" will be displayed.
- If you connect a USB hard disk drive to the AV receiver's **USB** port, we recommend that you use its AC adapter to power it.
- The AV receiver supports USB MP3 players that support the USB Mass Storage Class standard, which allows USB devices to be connected to computers without the need for special drivers or software. Note that not all USB MP3 players support the USB Mass Storage Class standard. Refer to your USB MP3 player's instruction manual for details.
- Protected WMA music files on an MP3 player cannot be played.
- Onkyo accepts no responsibility whatsoever for the loss or damage to data stored on a USB device when that device is used with the AV receiver. We recommend that you back up your important music files beforehand.
- MP3 players containing music files that are managed with special music software are not supported.



- Operation is not guaranteed for all USB devices, which includes the ability to power them.
- Do not connect your USB device via a USB hub. The USB device must be connected directly to the AV receiver's **USB** port.
- If the USB device contains a lot of data, the AV receiver may take a while to read it.
- USB devices with security functions cannot be played.

## Supported Audio File Formats

For server playback and playback from a USB device, the AV receiver supports the following music file formats.

Variable bit-rate (VBR) files are supported. However, playback times may not display correctly.

### Note

- With remote playback, the AV receiver does not support the following music file formats: FLAC, Ogg Vorbis, DSD and Dolby TrueHD.
- In the case of server playback, the above-mentioned file formats may not be played depending on the server type.

### ■ MP3 (.mp3 or .MP3)

- MP3 files must be MPEG-1/MPEG-2 Audio Layer 3 format with sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz and bitrates of between 8 kbps and 320 kbps. Incompatible files cannot be played.

### ■ WMA (.wma or .WMA)

WMA stands for Windows Media Audio and is an audio compression technology developed by Microsoft Corporation. Audio can be encoded in WMA format by using Windows Media® Player.

- WMA files must have the copyright option turned off.
- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, bitrates of between 5 kbps and 320 kbps, and WMA DRM are supported.
- WMA Pro/Voice formats are not supported.

### ■ WMA Lossless (.wma or .WMA)

- Sampling rates of 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz are supported.
- Quantization bit: 16 bit, 24 bit

### ■ WAV (.wav or .WAV)

WAV files contain uncompressed PCM digital audio.

- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz are supported.
- Quantization bit: 8 bit, 16 bit, 24 bit
- \* For playback from a USB device, sampling rates of 176.4 kHz and 192 kHz are not supported.

### ■ AAC

(.aac/.m4a/.mp4/.3gp/.3g2/.AAC/.M4A/.MP4/.3GP or .3G2)

AAC stands for MPEG-2/MPEG-4 Audio.

- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz and bitrates of between 8 kbps and 320 kbps are supported.

### ■ FLAC (.flac or .FLAC)

FLAC is a file format for lossless audio data compression.

- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz are supported.
- Quantization bit: 8 bit, 16 bit, 24 bit

### ■ Ogg Vorbis (.ogg or .OGG)

- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz and bitrates of between 48 kbps and 500 kbps are supported. Incompatible files cannot be played.

### ■ LPCM (Linear PCM)

- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz and 96 kHz are supported.
- Quantization bit: 8 bit, 16 bit, 24 bit
- \* Only for playback via network.

### ■ Apple Lossless (.m4a/.mp4/.M4A/.MP4)

- Sampling rates of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz and 96 kHz are supported.
- Quantization bit: 16 bit, 24 bit

### ■ DSD (.dsf or .DSF)

- The sampling rate of 2.8224 MHz is supported.

### ■ Dolby TrueHD (.vr/.mlp/.VR/.MLP)

- Sampling rates of 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz are supported.
- \* For playback from a USB device, sampling rates only of 48 kHz and 64 kHz are supported.

## About DLNA

The Digital Living Network Alliance is an international, cross-industry collaboration. Members of DLNA develop a concept of wired and wireless interoperable networks where digital content such as photos, music, and videos can be shared through consumer electronics, personal computers, and mobile devices in and beyond the home. The AV receiver complies with the DLNA Interoperability Guidelines version 1.5.



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Before any home theater component can be THX Select2 Plus certified, it must pass a rigorous series of quality and performance tests. Only then can a product feature the THX Select2 Plus logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Select2 Plus requirements define hundreds of parameters, including power amplifier performance, and pre-amplifier performance and operation for both digital and analog domains. THX Select2 Plus receivers also feature proprietary THX technologies (e.g., THX Mode) which accurately translate movie soundtracks for home theater playback.

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Onkyo does not guarantee Bluetooth compatibility between the AV receiver and all Bluetooth-enabled devices. For compatibility between the AV receiver and another device with Bluetooth technology, consult the device's documentation and dealer. In some countries, there may be restrictions on using Bluetooth devices. Check with your local authorities.

# Specifications

## Amplifier Section

Rated Output Power All channels:	<b>130 watts minimum continuous power per channel, 8 ohm loads, 2 channels driven from 20 Hz to 20 kHz, with a maximum total harmonic distortion of 0.08% (FTC) (North American)</b> 7 ch × 180 W at 6 ohms, 1 kHz, 1 ch driven of 1% (IEC) (Others)
Maximum Effective Output Power	7 ch × 215 W at 6 ohms, 1 kHz, 1 ch driven (JEITA) (Australian)
Dynamic Power*	* IEC60268-Short-term maximum output power 300 W (3 Ω, Front) 250 W (4 Ω, Front) 150 W (8 Ω, Front)
THD+N (Total Harmonic Distortion+Noise)	0.08% (20 Hz - 20 kHz, half power)
Damping Factor	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance (Unbalance)	200 mV/47 kΩ (LINE) 2.5 mV/47 kΩ (PHONO MM)
Rated RCA Output Level and Impedance	200 mV/470 Ω (PRE OUT)
Maximum RCA Output Level and Impedance	4.6 V/470 Ω (PRE OUT)
Phono Overload	70 mV (MM 1 kHz 0.5% Direct)
Frequency Response	5 Hz - 100 kHz/+1 dB, -3 dB (Direct mode)
Tone Control Characteristics	±10 dB, 30 Hz (BASS) ±10 dB, 20 kHz (TREBLE)
Signal to Noise Ratio	106 dB (LINE, IHF-A) 80 dB (PHONO MM, IHF-A)
Speaker Impedance	4 Ω - 16 Ω

## Video Section

Input Sensitivity/Output Level and Impedance	1 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 1 Vp-p/75 Ω (Composite)
Component Video Frequency Response	5 Hz - 100 MHz/+0 dB, -3 dB

## Tuner Section

FM Tuning Frequency Range	87.5 MHz - 107.9 MHz (North American) 87.5 MHz - 108.0 MHz, RDS (Others)
AM Tuning Frequency Range	522/530 kHz - 1611/1710 kHz
Preset Channel	40

## Network Section

Ethernet LAN	10BASE-T/100BASE-TX
Wireless LAN	Compatible standards: IEEE 802.11 b/g/n standard (Wi-Fi® standard)
Security:	WEP 64 bit, WEP 128 bit, WPA/WPA2-PSK (AES), WPA/WPA2-PSK (TKIP)
Transmission frequency	1 - 11 ch (North American) 10 - 13 ch (France) 1 - 13 ch (Others) (Wi-Fi® standard)
Radio frequency	2.4 GHz





## Bluetooth Section

Communication system	Bluetooth Specification version 2.1 + EDR (Enhanced Data Rate)
Maximum communication range	Line of sight approx. 15 m*1
Frequency band	2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation method	FHSS (Freq Hopping Spread Spectrum)
Compatible Bluetooth profiles	A2DP 1.2 (Advanced Audio Distribution Profile) AVRCP 1.3 (Audio Video Remote Control Profile)
Supported Codecs	SBC
Transmission range (A2DP)	20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)

\*1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, cordless phone, reception sensitivity, antenna's performance, operating system, software application, etc.

## General

Power Supply	AC 120 V, 60 Hz (North American) AC 220 - 240 V, 50/60 Hz (Others)
Power Consumption	8.1 A (North American) 720 W (Others)
No-sound Power Consumption	85 W (North American) 75 W (230 V) 80 W (240 V) (Others)
Stand-by Power Consumption	0.1 W (North American) 0.2 W (Others)
Dimensions (W × H × D)	435 mm × 198.5 mm × 398 mm 17-1/8" × 7-13/16" × 15-11/16"
Weight	15.0 kg (33.1 lbs.)

## ■ HDMI

Input	IN 1, IN 2, IN 3, IN 4, IN 5, IN 6, IN 7, AUX INPUT
Output	OUT MAIN, OUT SUB
Video Resolution	4K
Audio Format	Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, DSD
Supported	3D, Audio Return Channel, DeepColor, x.v.Color, Lip Sync, CEC (RIHD), 4K (up-scaling and Passthrough)

## ■ Video Inputs

Component	IN 1, IN 2
Composite	BD/DVD, CBL/SAT, STB/DVR, GAME 1, AUX

## ■ Video Outputs

Component	OUT
Composite	MONITOR OUT

## ■ Audio Inputs

Digital	Optical: 2 Coaxial: 3
Analog	BD/DVD, CBL/SAT, STB/DVR, GAME 1, PC, TV/CD, PHONO, AUX

## ■ Audio Outputs

Analog	ZONE2 LINE OUT, ZONE3 LINE OUT
Analog Multichannel Pre Outputs	7
Subwoofer Pre Outputs	2
Speaker Outputs	Main (L, R, C, SL, SR, SBL, SBR) + Front Wide/ZONE2 (L, R) + Front High (L, R)
Phones	1 (ø 6.3)

## ■ Others

Setup Mic	1
RS232	1
RI	1
USB	1 (Front)
Ethernet	1
IR Input	1
12 V Trigger Out	1

Specifications and features are subject to change without notice.

# ONKYO

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## Asia, Oceania, Middle East, Africa

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<http://www.intl.onkyo.com/support/>

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Visit the Onkyo web site for the latest update.

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## Using Internet Radio

### Common Procedures in Internet Radio Menu

#### Note

- Available services may vary depending on the region.
- Certain network service or contents available through this device may not be accessible in case the service provider terminates its service.

#### 1 Press NET.

A list of the network services appears, and the **NET** indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver.

#### 2 Select the desired service and press ENTER.

The top page of the selected service appears.

### Using Multiple Accounts

The AV receiver supports multiple user accounts, which means you can freely switch between several logins. After registering user accounts, login is performed from the “**Users**” screen.

#### 1 Press MENU while the Users screen is displayed.

The following menu items appear:

**Add new user:**

**Remove this user:**

You can either store a new user account, or delete an existing one.

#### Tip

- Some of the services don't allow the use of multiple user accounts.
- You can store up to 10 user accounts.
- To switch between accounts you must first log out from the current account, and log in again on the “**Users**” screen.

[Pandora® internet radio  
–Getting Started \(U.S. only\)..... 2](#)

[Using Rhapsody \(U.S. only\)..... 3](#)

[Using the SiriusXM Internet Radio  
\(North American only\)..... 4](#)

[Using Last.fm Internet Radio ..... 5](#)

[Using Slacker Personal Radio ..... 6](#)

[Using MP3tunes ..... 7](#)



## Pandora® internet radio –Getting Started (U.S. only)

Pandora is a free, personalized Internet radio service that plays the music you know and helps you discover music you'll love.

### 1 Use ▲/▼ to select “I have a Pandora Account” or “I’m new to Pandora” and then press ENTER.

If you are new to Pandora select “I’m new to Pandora”. You will see an activation code on your TV screen. Please write down this code. Go to an Internet connected computer and point your browser to [www.pandora.com/onkyo](http://www.pandora.com/onkyo)

Enter your activation code and then follow the instructions to create your Pandora account and your personalized Pandora Internet radio stations. You can create your stations by entering your favorite tracks and artists when prompted. After you have created your account and stations you can return to your Onkyo receiver and press enter to begin listening to your personalized Pandora Internet radio.

If you have an existing Pandora account, you can add your Pandora account to your Onkyo receiver by selecting “I have a Pandora Account” and logging in with your email and password.

#### Tip

- If you want to use multiple user accounts, see “Using Multiple Accounts” (→ [page 1](#)). Login can be made from the “Users” screen.

### 2 To play a station, use ▲/▼ to select the station from your station list, and then press ENTER. Playback starts and the playback screen appears.

#### Create a New Station:

Enter the name of a track, artist, or genre and Pandora will create a unique radio station for you based on the musical qualities of that track, artist, or genre.

#### ■ Menu Items

##### I like this track:

Give a track “thumbs-up” and Pandora will play more music like it.

##### I don’t like this track:

Give a track “thumbs-down” and Pandora will ban that track from the current station.

##### Why is this track playing?:

Discover some of the musical attributes that Pandora uses to create your personal radio stations.

##### I’m tired of this track:

If you are tired of a track, you can put the track to sleep and Pandora will not play it for one month.

##### Create station from this artist:

Creates a radio station from this artist.

#### Delete this station:

This will permanently delete a station from your Pandora account. All of your thumbs feedback will be lost should you choose to re-create the station with the same track or artist.

#### Create station from this track:

Creates a radio station from this track.

#### Rename this station:

Lets you rename the current radio station.

#### Bookmark this artist:

Pandora will bookmark your favorite artist for your profile on [www.pandora.com](http://www.pandora.com).

#### Bookmark this track:

Pandora will bookmark the current track and allow you to buy them all from Amazon or iTunes in one step!

#### Add to My Favorites:

Adds a station to My Favorites list.

## PANDORA®

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## Using Rhapsody (U.S. only)

### 1 Use ▲/▼ to select “Sign in to your account” and then press ENTER.

To use Rhapsody, you need an account. If you don't have one yet, you can create a new account at

[www.rhapsody.com/onkyo](http://www.rhapsody.com/onkyo)

If you have an existing Rhapsody account, select “Sign in to your account” and press ENTER.

Enter your user name (usually your email) and password in the next keyboard screen, or in Web Setup.

#### ■ Using the keyboard screen

1. Use ▲/▼/◀/▶ and ENTER to enter your user name and password.
2. Select “OK”.
3. Press ENTER. The “Confirm your entries” screen appears.
4. Press ENTER.

#### Tip

- If you want to use multiple user accounts, see “Using Multiple Accounts” (→ [page 1](#)). Login can be made from the “Users” screen.

### 2 Use ▲/▼ to select the menu, then press ENTER.

#### Search:

You can search for music by Artist, Album, or Track.

#### Music Guide:

You can play tracks from Genres, Top Artists, Top Albums, Top Tracks, New Releases, and Staff Picks.

#### Rhapsody Channels:

Listen to radio channels programmed by Rhapsody's top-notch editors.

#### Playlists:

Play your own personal playlists.

#### My Library:

Bookmark your favorite albums and tracks from the Rhapsody catalog using My Library.

#### Account Info:

Confirm your account information.

#### Sign Out:

Sign out from your Rhapsody account.

### 3 Use ▲/▼ to select a channel, and press ENTER or ► to start playback.

Playback starts and the playback screen appears.

You can control the tracks with the buttons on the remote control.

Enabled buttons: ►, II, ■, ◀◀, ▶▶, I◀◀, ▶▶I, RANDOM, REPEAT

#### Note

- On Rhapsody Channels, some of the buttons don't work.

#### ■ Menu Items

##### Add track to My Library:

Bookmark currently-playing tracks.

##### Add album to My Library:

Bookmark currently-playing albums.

##### Add playlist to My Library:

Bookmark currently-playing playlists.

##### Add channel to My Channels:

Bookmark currently-playing Rhapsody radio channels.

##### Add to My Favorites:

Adds a track, channel or playlist to My Favorites list.

#### Tip

- You can remove bookmarked tracks, albums, and Rhapsody Channels from My Library.



## Using the SiriusXM Internet Radio (North American only)

Your Onkyo AV receiver includes a free trial of SiriusXM Internet Radio. The “Account Info” screen shows how many days are left in your trial. After the trial period expires, if you want to continue listening to the service, you must subscribe. To subscribe go to [www.siriusxm.com/internetradio](http://www.siriusxm.com/internetradio) with your computer.

When you subscribe, you will be provided with a username and password which has to be entered into the AV receiver.

To use SiriusXM Internet Radio, you must have your AV receiver connected to the Internet. Using the remote control, follow these steps:

### 1 Use ▲/▼ to select “Sign In”, and then press ENTER.

If you have an existing SIRIUS account, you can sign in by selecting “Sign In”. Enter your user name and password in the next keyboard screen, or in Web Setup. If you don’t know your username or password, call Sirius XM at (888) 539-7474 for assistance.

#### Tip

- If you want to use multiple user accounts, see “Using Multiple Accounts” (→ [page 1](#)). Login can be made from the “Users” screen.

#### ■ Using the keyboard screen

1. Use ▲/▼/◀/▶ and ENTER to enter your user name and password.
2. Select “OK”.
3. Press ENTER. The “Confirm your entries” screen appears.
4. Press ENTER.

“Please wait...” appears and then “SiriusXM Internet Radio” screen appears which displays the category available for selection.

### 2 Use ▲/▼ to select the category and then press ENTER.

The channel list screen for the selected category appears.

### 3 Use ▲/▼ to select the desired channel and then press ENTER.

The playback screen for the selected channel appears and you can listen to SiriusXM Internet Radio.

You can control the tracks with the buttons on the remote control.

Enabled buttons: ■, ■■, ◀◀, ▶▶

#### ■ Menu Items

##### Add to My Favorites:

Adds a channel to My Favorites list.



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## Using Last.fm Internet Radio

### Last.fm is a music service that learns what you love...

Your new Onkyo AV receiver is very clever. If you have a free Last.fm account, it will keep track of all the songs you've just played. When you visit the Last.fm website, you can see personal charts of the music you've enjoyed, share them with friends and see what they like, too.

With thousands of biographies, reviews and an endless choice of personalised, ad-free radio stations, Last.fm is a great way to discover music. Pick up your free Last.fm account today at [www.last.fm/join](http://www.last.fm/join)

Get a subscription and you can enjoy the best of ad-free Last.fm Radio on your Onkyo AV receiver without a computer!

### Recommended Radio:

Discover smart personalised recommendations that adapt as your tastes change.

### Artist Radio:

Pick any artist and we'll play you a whole station of music inspired by your choice.

### My Library:

Sit back and enjoy selections from all the music you've heard since you joined Last.fm.

### Tag Radio:

Polish funk? Death pop? Think of a style and we'll entertain you with it for hours.

Start your free trial straight away when you create your account and see for yourself what it's like to have the world's music at your fingertips. Latest prices and full information are available at [www.last.fm/subscribe](http://www.last.fm/subscribe)

## 1 Use ▲/▼ to select "Sign in to your account", and then press ENTER.

If you have the existing Last.fm account, you can sign in to your account to select "Sign in to your account". Enter your user name and password in the next keyboard screen.

### ■ Using the keyboard screen

1. Use ▲/▼/◀/▶ and the **ENTER** to enter your user name and password.
2. Select "OK".
3. Press **ENTER**. The "Confirm your entries" screen appears.
4. Press **ENTER**.

"Please wait..." appears and then "Last.fm Internet Radio" screen appears.

### Tip

- If you want to use multiple user accounts, see "Using Multiple Accounts" (→ [page 1](#)). Login can be made from the "Users" screen.

## 2 Use ▲/▼ to select menu and then press ENTER.

### Search Station:

You can search station by Artist, Tag, or User Name.

### Top Artists Station:

You can play tracks of top-rated artists.

### Top Tags Station:

You can play tracks of top-rated tags.

### Personal Station:

- You can play tracks from personalized station ("Your Library", "Your Neighbourhood" and "Your Recommendations").

### Profile:

You can play tracks from "Recently Listened Tracks", "Library" and "Neighbours".

### Account Info:

Confirm your account information.

### Sign Out:

It signs out from your account.

## 3 Use ▲/▼ to select a station, and press ENTER or ▶ to start playback.

Playback starts and the playback screen appears.

### ■ Menu Items

#### I Love this track:

Track information is saved in Last.fm server, and playback frequency increases.

#### Ban this track:

Track information is saved in Last.fm server, and playback frequency reduces.

#### Add to My Favorites:

Adds a station to My Favorites list.

### ■ Using scrobbling control

Use ▲/▼ to select "Enable", and then press **ENTER**.

- \* Internet radio services provided by a third party may be terminated with or without notice. Internet radio services may not be available in some areas.





## Using Slacker Personal Radio

**1** If you do not have an account, create one on the Slacker website ([www.slacker.com](http://www.slacker.com)) with your computer.

If you already have a Slacker account, select “Sign in to your account” and then press ENTER.

The keyboard screen appears. You can enter information from the remote control or the keys on the main unit.

**2** If there are no mistakes in the information you have entered, use ▲/▼/◀/▶ to select “OK” then press ENTER.

An account information confirmation screen appears.

**3** If you do not have an account, select “Access without Sign In” and press ENTER to use a restricted version of the service.

Note that use will be restricted.

### Tip

- If you want to use multiple user accounts, see “Using Multiple Accounts” (→ [page 1](#)). Login can be made from the “Users” screen.

**4** Use ▲/▼ to select a menu item and then press ENTER.

To sign out, use ▲/▼ to select “Sign out” from this screen and then press ENTER.

**5** Use ▲/▼ to select a station and then press ENTER or ► to start playback from the station.

The playback screen appears.

**6** You can control the tracks with the buttons on the remote control.

Enabled buttons: ►, ||, ■, ►►

### ■ Menu Items

#### Rate Song as Favorite:

Stores information to server, making it more likely that the song will be played again.

#### Ban Song:

Stores information to server, making it less likely that the song will be played again.

#### Ban Artist:

Stores information to server, making it less likely that the songs from this artist will be played again.

#### Mark Favorite:

Adds the currently playing station to your favorites.

#### Unmark Favorite:

Deletes the currently playing station from your favorites.

#### Add song to Library:

Adds the currently playing track to your library.

#### Delete song from Library:

Deletes the currently playing track from your library.

#### Add to My Favorites:

Adds a station or song to My Favorites list.



## Using MP3tunes

Listen to your music collection on your home stereo in complete digital fidelity without a personal computer plus safely backup all your songs. Here's how:

### Creating an Account on your Computer

- 1** From your computer, open a web browser and go to: [www.mp3tunes.com/signup](http://www.mp3tunes.com/signup)
- 2** Create an account.
- 3** Click the Upload link ([www.mp3tunes.com/upload](http://www.mp3tunes.com/upload)) to add files to your Locker.
- 4** View, edit and listen to your files by clicking on Player ([www.mp3tunes.com/player](http://www.mp3tunes.com/player)).

### Playing Contents on the AV Receiver

#### Tip

- Before proceeding, you need to select the MP3tunes service as described in "Common Procedures in Internet Radio Menu" (→ [page 1](#)).

- 1** Use ▲/▼ to select "Sign in to your account", and then press ENTER.
- 2** Enter the e-mail address and password you used when creating your account, select "OK" and press ENTER.  
The keyboard screen appears. You can enter your user name and password from the remote controller or the buttons on the AV receiver.
- 3** If there are no mistakes in the information you have entered, select "OK" and press ENTER.  
An account information confirmation screen appears.

#### Tip

- If you want to use multiple user accounts, see "Using Multiple Accounts" (→ [page 1](#)). Login can be made from the "Users" screen.

- 4** Use ▲/▼ to select the menu, then press ENTER.

#### Music:

The place to find your Artists, Albums, and Playlists.

#### Shuffle:

Starts playing a random selection of tracks from your Locker.

#### Search:

Find a specific Album, Artist, or Song.

#### Account Info:

Your MP3tunes account information.

#### Sign Out:

Log out of your MP3tunes account.

The track at the top of the music list is automatically played back.

- 5** Use ▲/▼ to select a track and press ENTER or ► to start playback.

A playback screen appears.

You can control the tracks with the buttons on the remote control.

Enabled buttons: ►, ||, ■, ◀◀, ▶▶

#### ■ Menu Items

#### Go to Menu:

Displays additional menu options.

- 6** You can view or change your MP3tunes account settings by going to [www.mp3tunes.com/account](http://www.mp3tunes.com/account).



# Utilisation d'une webradio

## Procédures courantes dans le menu de webradio

### Remarque

- Les services disponibles peuvent varier en fonction de la région.
- Certain services réseau ou contenus disponible via cet appareil peuvent être inaccessibles au cas où le prestataire de services terminerai son service.

### 1 Appuyez sur NET.

Une liste des services réseau s'affiche, et le témoin **NET** s'allume. S'il clignote, vérifiez que le câble Ethernet est fermement branché sur l'ampli-tuner AV.

### 2 Sélectionnez le service désiré et appuyez sur ENTER.

La page principale du service sélectionné s'affiche.

### Utilisation de plusieurs comptes

L'ampli-tuner AV prend en charge plusieurs comptes utilisateur, ce qui signifie que vous pouvez librement commuter entre plusieurs connexions. Après avoir enregistré des comptes utilisateur, l'identification est réalisée à partir de l'écran « **Users** ».

#### 1 Appuyez sur MENU lorsque l'écran Users est affiché.

Les éléments de menu suivants s'affichent :

**Add new user :**

**Remove this user :**

Vous pouvez soit stocker un nouveau compte utilisateur, soit en supprimer un existant.

### Conseil

- Certains des services ne permettent pas l'utilisation de plusieurs comptes utilisateur.
- Vous pouvez stocker jusqu'à 10 comptes utilisateur.
- Pour commuter entre les comptes, vous devez d'abord vous déconnecter du compte actuel, puis vous reconnectez depuis l'écran « **Users** ».

### Pandora® internet Radio

–Pour commencer

(États-Unis uniquement)..... 2

### Utilisation de Rhapsody

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## Pandora® internet Radio –Pour commencer (États-Unis uniquement)

Pandora est un service de radio en ligne libre et personnalisé vous permettant de lire la musique que vous connaissez et de découvrir celle que vous aimez.

### 1 Utilisez ▲/▼ pour sélectionner « I have a Pandora Account » ou « I'm new to Pandora », puis appuyez sur ENTER.

Si vous ne connaissez pas Pandora sélectionnez « I'm new to Pandora ». Un code d'activation apparaîtra sur l'écran de votre téléviseur. Notez ce code. Utilisez un ordinateur branché sur Internet et connectez le navigateur à [www.pandora.com/onkyo](http://www.pandora.com/onkyo)

Saisissez votre code d'activation puis suivez les instructions pour créer votre compte Pandora et vos stations webradio Pandora personnalisées. Lorsque vous y êtes invités, vous pouvez créer vos stations en saisissant vos pistes et vos artistes préférés. Après la création de votre compte et de vos stations, vous pouvez retourner à votre récepteur Onkyo et appuyez sur entrée pour écouter votre webradio Pandora personnalisée.

Si vous disposez d'un compte Pandora, vous pouvez ajouter votre compte Pandora à votre récepteur Onkyo en sélectionnant « I have a Pandora Account » et y accéder en entrant votre adresse e-mail et votre mot de passe.

#### Conseil

- Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (→ [page 1](#)). L'identification peut être réalisée à partir de l'écran « Users ».

### 2 Pour lire une station, utilisez ▲/▼ pour sélectionner la station dans votre liste de stations, puis appuyez sur ENTER.

La lecture débute et l'écran de lecture s'affiche.

#### Create a New Station :

Saisissez le nom d'une piste, d'un artiste ou d'un genre et Pandora créera une station radio unique pour vous en fonction des qualités musicales de la piste, de l'artiste ou du genre choisi.

#### ■ Éléments du menu

##### I like this track :

Acceptez la piste et Pandora lira d'autres musiques similaires.

##### I don't like this track :

Rejetez la piste et Pandora éliminera cette piste de la station écoutée.

##### Why is this track playing? :

Découvrez certains des attributs musicaux que Pandora utilise pour créer vos stations radio personnelles.

##### I'm tired of this track :

Si vous en avez assez d'une piste, vous pouvez mettre la piste « au repos » et Pandora ne la lira plus pendant un mois.

##### Create station from this artist :

Permet de créer une station radio à partir de cet artiste.

#### Delete this station :

Ceci supprimera de façon permanente la station de votre compte Pandora. Au cas où vous décideriez de recréer la station avec les mêmes pistes ou les mêmes artistes, tous vos acceptations/rejets précédents seront perdus.

#### Create station from this track :

Permet de créer une station radio à partir de cette piste.

#### Rename this station :

Vous permet de renommer la station radio actuelle.

#### Bookmark this artist :

Pandora marquera votre artiste préféré pour votre profil sur [www.pandora.com](http://www.pandora.com).

#### Bookmark this track :

Pandora marquera la piste en cours et vous permettra de toutes les acheter sur Amazon ou iTunes en une étape !

#### Add to My Favorites :

Permet d'ajouter une station à la liste My Favorites.

## PANDORA®

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## Utilisation de Rhapsody (Etats-Unis uniquement)

### 1 Utilisez ▲/▼ pour sélectionner « Sign in to your account », puis appuyez sur ENTER.

Vous devez posséder un compte pour utiliser Rhapsody. Si vous ne disposez pas encore d'un compte, vous pouvez en créer un à partir de [www.rhapsody.com/onkyo](http://www.rhapsody.com/onkyo)

Si vous possédez déjà un compte Rhapsody, sélectionnez « Sign in to your account », puis appuyez sur **ENTER**.

Saisissez votre nom utilisateur (en général votre adresse électronique) et votre mot de passe dans l'écran clavier suivant ou dans Configuration Web.

#### ■ Utilisation de l'écran clavier

1. Utilisez ▲/▼/◀/▶ et **ENTER** pour saisir votre nom d'utilisateur et votre mot de passe.
2. Sélectionnez « **OK** ».
3. Appuyez sur **ENTER**. L'écran « **Confirm your entries** » s'affiche.
4. Appuyez sur **ENTER**.

#### Conseil

- Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (→ [page 1](#)). L'identification peut être réalisée à partir de l'écran « **Users** ».

### 2 Utilisez ▲/▼ pour sélectionner le menu, puis appuyez sur ENTER.

#### Search :

Vous pouvez rechercher des morceaux par artiste, par album ou par piste.

#### Music Guide :

Vous pouvez lire des pistes à partir des genres, des meilleurs artistes, des meilleurs albums, des meilleures pistes, des nouveautés et des sélections du personnel.

#### Rhapsody Channels :

Écoutez les canaux de radio programmée par les meilleurs éditeurs de Rhapsody.

#### Playlists :

Permet de jouer vos listes de lecture personnelles.

#### My Library :

Marquez vos albums et vos pistes personnelles dans le catalogue de Rhapsody à l'aide de My Library.

#### Account Info :

Vérifiez les informations de votre compte.

#### Sign Out :

Déconnectez-vous de votre compte Rhapsody.

### 3 Utilisez ▲/▼ pour sélectionner un canal, puis appuyez sur ENTER ou ▶ pour démarrer la lecture.

La lecture débute et l'écran de lecture s'affiche. Vous pouvez contrôler les pistes avec les touches sur la télécommande.

Boutons activés : ▶, ||, ■, ◀◀, ▶▶, ◀◀▶▶, ▶▶|, **RANDOM**, **REPEAT**

#### Remarque

- Sur les canaux Rhapsody, certaines touches ne fonctionnent pas.

#### ■ Eléments du menu

##### Add track to My Library :

Marquez les pistes en cours de lecture.

##### Add album to My Library :

Marquez les albums en cours de lecture.

##### Add playlist to My Library :

Marquez les listes de lecture en cours de lecture.

##### Add channel to My Channels :

Marquez les canaux de radio Rhapsody en cours de lecture.

##### Add to My Favorites :

Permet d'ajouter une piste, un canal ou une liste de lecture à la liste My Favorites.

#### Conseil

- Vous pouvez supprimer des pistes, des albums et des canaux Rhapsody marqués de My Library.



## Utilisation de SiriusXM Internet Radio (Amérique du Nord uniquement)

Votre ampli-tuner AV Onkyo comprend un essai gratuit de SiriusXM Internet Radio. L'écran « Account Info » affiche le nombre de jours restants dans votre essai. Une fois la période d'essai expirée, si vous souhaitez continuer à écouter le service, vous devez vous abonner. Pour vous inscrire, accédez à l'adresse [www.siriusxm.com/internetradio](http://www.siriusxm.com/internetradio) à l'aide de votre ordinateur.

Lorsque vous vous inscrivez, vous devez fournir un nom et un mot de passe utilisateur qui doivent être saisis dans l'ampli-tuner AV.

Pour utiliser SiriusXM Internet Radio, l'ampli-tuner AV doit être connecté à Internet. Suivez les étapes ci-dessous à l'aide de la télécommande :

### 1 Utilisez ▲/▼ pour sélectionner « Sign In », puis appuyez sur ENTER.

Si vous possédez déjà un compte SIRIUS, vous pouvez y accéder en sélectionnant « Sign In ». Saisissez votre nom utilisateur et votre mot de passe dans l'écran clavier suivant ou dans Configuration Web. Si vous ne connaissez pas votre nom d'utilisateur ou votre mot de passe, appelez Sirius XM au (888) 539-7474 pour obtenir une assistance.

#### Conseil

- Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (→ [page 1](#)). L'identification peut être réalisée à partir de l'écran « Users ».

#### ■ Utilisation de l'écran clavier

1. Utilisez ▲/▼/◀/▶ et ENTER pour saisir votre nom d'utilisateur et votre mot de passe.
2. Sélectionnez « OK ».
3. Appuyez sur ENTER. L'écran « Confirm your entries » s'affiche.
4. Appuyez sur ENTER.  
« Please wait... » s'affiche, puis l'écran « SiriusXM Internet Radio » affiche la catégorie que vous pouvez sélectionner.

### 2 Utilisez ▲/▼ pour sélectionner la catégorie, puis appuyez sur ENTER.

L'écran de la liste des canaux de la catégorie sélectionnée s'affiche.

### 3 Utilisez ▲/▼ pour sélectionner le canal de votre choix, puis appuyez sur ENTER.

L'écran de lecture du canal sélectionné s'affiche et vous pouvez écouter SiriusXM Internet Radio. Vous pouvez contrôler les pistes avec les touches sur la télécommande.

Boutons activés : ■, ■■, ◀◀, ▶▶

#### ■ Éléments du menu

##### Add to My Favorites :

Permet d'ajouter un canal à la liste My Favorites.



Les abonnements SiriusXM Internet Radio sont vendus séparément et sont subordonnés par les conditions Sirius (voir [www.sirius.com](http://www.sirius.com)). Assurez-vous de lire cet accord avant d'acquiescer votre abonnement. Sirius, XM et tous les logos et marques afférents sont des marques déposées de Sirius XM Radio Inc. et de ses filiales. Tous droits réservés.



## Utilisation de la webradio Last.fm

### Last.fm un service de musique qui apprend ce que vous aimez...

Votre nouvel ampli-tuner AV Onkyo est très intelligent. Si vous avez un compte Last.fm gratuit, il garde une trace de toutes les chansons que vous avez juste jouées. Quand vous vous rendez sur le site Web de Last.fm, vous pouvez voir les graphiques personnels de la musique que vous avez appréciée, les partagez avec vos amis et également voir ce qu'ils aiment.

Avec des milliers de biographies, de revues et un choix infini de stations de radio personnalisées et sans pub, Last.fm est excellent moyen de découvrir de la musique. Créez aujourd'hui votre compte Last.fm gratuit sur [www.last.fm/join](http://www.last.fm/join)

Inscrivez-vous et vous pourrez apprécier le meilleur de la radio sans pub Last.fm sur votre ampli-tuner AV Onkyo sans ordinateur !

### Recommended Radio :

Découvrez les recommandations personnalisées fûtées qui changent en même temps que vos goûts.

### Artist Radio :

Sélectionnez n'importe quel artiste et nous vous jouerons une station entière de musique inspirée par votre choix.

### My Library :

Reposez-vous de retour et appréciez les sélections à partir de toute la musique que vous avez entendue depuis que vous avez joint Last.fm.

### Tag Radio :

Funk polonaise ? Death pop ? Pensez à un style et nous vous divertirons avec pendant des heures.

Commencez votre essai gratuit immédiatement à la création votre compte et découvrez par vous-même ce que cela fait d'avoir la musique du monde au bouts des doigts. Les derniers prix et les informations complètes sont disponibles sur [www.last.fm/subscribe](http://www.last.fm/subscribe)

## 1 Utilisez ▲/▼ pour sélectionner « Sign in to your account », puis appuyez sur ENTER.

Vous possédez déjà un compte Last.fm, vous pouvez vous y connecter pour sélectionner « **Sign in to your account** ». Saisissez votre nom utilisateur et votre mot de passe dans l'écran clavier suivant.

### ■ Utilisation de l'écran clavier

1. Utilisez ▲/▼/◀/▶ et le bouton **ENTER** pour saisir votre nom d'utilisateur et votre mot de passe.
  2. Sélectionnez « **OK** ».
  3. Appuyez sur **ENTER**. L'écran « **Confirm your entries** » s'affiche.
  4. Appuyez sur **ENTER**.
- « **Please wait...** » apparaît puis l'écran « **Last.fm Internet Radio** » apparaît.

### Conseil

- Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (→ [page 1](#)). L'identification peut être réalisée à partir de l'écran « **Users** ».

## 2 Utilisez ▲/▼ pour sélectionner un menu puis appuyez sur ENTER.

### Search Station :

Vous pouvez rechercher une station par artiste, par tag ou par nom d'utilisateur.

### Top Artists Station :

Vous pouvez lire des pistes des artistes les mieux évalués.

### Top Tags Station :

Vous pouvez lire des pistes des tags les mieux évalués.

### Personal Station :

Vous pouvez lire des pistes de votre station personnalisée (« **Your Library** », « **Your Neighbourhood** » et « **Your Recommendations** »).

### Profile :

Vous pouvez lire des pistes de « **Recently Listened Tracks** », « **Library** » et « **Neighbours** ».

### Account Info :

Vérifiez les informations de votre compte.

### Sign Out :

Pour vous déconnecter de votre compte.

## 3 Utilisez ▲/▼ pour sélectionner une station, puis appuyez sur ENTER ou ▶ pour démarrer la lecture.

La lecture débute et l'écran de lecture s'affiche.

### ■ Eléments du menu

#### I Love this track :

L'information de la piste est sauvegardée dans le serveur Last.fm, et la fréquence de lecture augmente.

#### Ban this track :

L'information de la piste est sauvegardée dans le serveur Last.fm, et la fréquence de lecture diminue.

#### Add to My Favorites :

Permet d'ajouter une station à la liste My Favorites.

### ■ Utilisation du contrôle Scrobbling

Utilisez ▲/▼ pour sélectionner « **Enable** », puis appuyez sur **ENTER**.

\* Les services de webradio fournis par un tiers peuvent être résiliés avec ou sans préavis. Les services de webradio peuvent ne pas être accessibles dans certaines zones.





## Utilisation de Slacker Personal Radio

**1** Si vous ne possédez pas de compte, créez-en un à partir du site Web de Slacker ([www.slacker.com](http://www.slacker.com)) à l'aide de votre ordinateur.

Si vous possédez déjà un compte Slacker, sélectionnez « **Sign in to your account** », puis appuyez sur **ENTER**.

L'écran clavier s'affiche. Pouvez saisir des informations à partir de la télécommande ou des touches sur l'appareil principal.

**2** Si les informations que vous avez saisies ne comportent pas d'erreur, utilisez ▲/▼/◀/▶ pour sélectionner « **OK** », puis appuyez sur **ENTER**.

L'écran de confirmation des informations du compte s'affiche.

**3** Si vous ne possédez pas de compte, sélectionnez « **Access without Sign In** », puis appuyez sur **ENTER** pour utiliser une version restreinte du service.

Veillez noter que l'utilisation est restreinte.

### Conseil

- Si vous souhaitez utiliser plusieurs comptes utilisateur, consultez « Utilisation de plusieurs comptes » (→ [page 1](#)). L'identification peut être réalisée à partir de l'écran « **Users** ».

**4** Utilisez ▲/▼ pour sélectionner un élément du menu, puis appuyez sur **ENTER**.

Pour vous déconnecter, utilisez ▲/▼ pour sélectionner « **Sign out** » depuis cet écran, puis appuyez sur **ENTER**.

**5** Utilisez ▲/▼ pour sélectionner une station, puis appuyez sur **ENTER** ou ▶ pour démarrer la lecture depuis cette station.

L'écran de lecture apparaît.

**6** Vous pouvez contrôler les pistes avec les touches sur la télécommande.

Boutons activés : ▶, II, ■, ▶▶

### ■ Éléments du menu

#### Rate Song as Favorite :

Permet de stocker des informations sur le serveur, et d'augmenter la probabilité que le morceau soit lu de nouveau.

#### Ban Song :

Permet de stocker des informations sur le serveur, et de diminuer la probabilité que le morceau soit lu de nouveau.

#### Ban Artist :

Permet de stocker des informations sur le serveur, et de diminuer la probabilité que les morceaux de cet artiste soient lus de nouveau.

#### Mark Favorite :

Permet d'ajouter la station en cours de lecture à vos favoris.

#### Unmark Favorite :

Permet de supprimer la station en cours de lecture de vos favoris.

#### Add song to Library :

Permet d'ajouter la piste en cours de lecture à votre bibliothèque.

#### Delete song from Library :

Permet de supprimer la piste en cours de lecture de votre bibliothèque.

#### Add to My Favorites :

Permet d'ajouter une station ou un morceau à la liste My Favorites.



# Uso de Internet Radio

## Procedimientos comunes en el menú Internet Radio

### Nota

- Los servicios disponibles pueden variar de una región a otra.
- Es posible que determinados servicios de red o contenidos disponibles a través de este dispositivo no sean accesibles si el proveedor del servicio da por finalizado el servicio.

### 1 Pulse NET.

Aparecerá una lista de los servicios de red y se iluminará el indicador **NET**. Si parpadea, verifique que el cable Ethernet esté firmemente conectado al receptor de AV.

### 2 Seleccione el servicio deseado y pulse ENTER.

Aparecerá la página principal del servicio seleccionado.

### Uso de múltiples cuentas

El receptor de AV permite múltiples cuentas de usuario, lo que quiere decir que se puede cambiar libremente entre varios usuarios. Después de registrar las cuentas de usuario, el acceso se realiza desde la pantalla “**Users**”.

### 1 Pulse MENU cuando aparezca la pantalla de usuarios.

Aparecerán los siguientes elementos del menú:

**Add new user:**

**Remove this user:**

Puede guardar una nueva cuenta de usuario o borrar una existente.

### Consejo

- Algunos de los servicios no permiten el uso de múltiples cuentas de usuario.
- Puede guardar hasta 10 cuentas de usuario.
- Para cambiar entre cuentas debe antes cerrar sesión en la cuenta actual y acceder de nuevo en la pantalla “**Users**”.

**Pandora® Internet Radio**  
–Primeros pasos (solo EE.UU.)..... 2

**Uso de Rhapsody (sólo EE.UU.)..... 3**

**Uso de SiriusXM Internet Radio**  
(solo Norteamérica)..... 4

**Uso de Last.fm Internet Radio ..... 5**

**Uso de Slacker Personal Radio ..... 6**



## Pandora® Internet Radio –Primeros pasos (solo EE.UU.)

Pandora es un servicio de radio por Internet gratuito y personalizado que reproduce la música que usted conoce y le ayudará a descubrir música que le encantará.

### 1 Utilice ▲/▼ para seleccionar “I have a Pandora Account” o “I’m new to Pandora” y luego pulse ENTER.

Si no conoce Pandora seleccione “I’m new to Pandora”. Verá un código de activación en la pantalla del televisor. Tome nota de este código. Vaya a un ordenador conectado a Internet y dirija el navegador a [www.pandora.com/onkyo](http://www.pandora.com/onkyo)

Introduzca su código de activación y siga las instrucciones para crear su cuenta de Pandora y sus emisoras de radio por Internet personalizadas de Pandora. Puede crear sus propias emisoras introduciendo sus temas y artistas favoritos cuando aparezca la solicitud correspondiente. Una vez creada su cuenta y sus emisoras, puede regresar al receptor Onkyo y pulsar Enter para empezar a escuchar su radio por Internet personalizada de Pandora.

Si ya dispone de una cuenta de Pandora, puede añadirla al receptor Onkyo seleccionando “I have a Pandora Account” e iniciando la sesión con su dirección de correo electrónico y contraseña.

#### Consejo

- Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (→ [página 1](#)). Se puede iniciar sesión desde la pantalla “Users”.

### 2 Utilice ▲/▼ para seleccionar la emisora en la lista de emisoras y luego pulse ENTER.

Se inicia la reproducción y aparece la pantalla de reproducción.

#### Create a New Station:

Introduzca el nombre de un tema, artista o género; Pandora creará una emisora de radio exclusiva para usted basada en las cualidades musicales de ese tema, de ese artista o de ese género.

#### ■ Elementos del menú

##### I like this track:

Si aprueba (pulgar arriba) un tema, Pandora reproducirá más música parecida.

##### I don’t like this track:

Si no aprueba (pulgar abajo) el tema, Pandora eliminará dicho tema de la emisora actual.

##### Why is this track playing?:

Descubra algunos de los atributos musicales que Pandora utiliza para crear sus emisoras de radio personalizadas.

##### I’m tired of this track:

Si se cansa de un tema, puede “silenciarlo” de modo que Pandora no lo reproduzca durante un mes.

##### Create station from this artist:

Crea una emisora de radio a partir de este artista.

#### Delete this station:

Esto eliminará de forma permanente una emisora de su cuenta de Pandora. Toda la información sobre sus aprobaciones/ desaprobarciones se perderá si quiere volver a crear la emisora con el mismo tema o artista.

#### Create station from this track:

Crea una emisora de radio a partir de este tema.

#### Rename this station:

Le permite renombrar la emisora de radio actual.

#### Bookmark this artist:

Pandora marcará su artista favorito para su perfil en [www.pandora.com](http://www.pandora.com).

#### Bookmark this track:

Pandora marcará el tema actual y le permitirá comprarlos todos en Amazon o iTunes ¡con un solo paso!

#### Add to My Favorites:

Añade una emisora a la lista Mis favoritos.

## PANDORA®

PANDORA, el logotipo de PANDORA logo, y la imagen corporativa de Pandora son marcas comerciales o marcas comerciales registradas de Pandora Media, Inc. Uso con permiso.



## Uso de Rhapsody (sólo EE.UU.)

### 1 Utilice ▲/▼ para seleccionar “Sign in to your account” y luego pulse ENTER.

Para utilizar Rhapsody, necesitará una cuenta. Si todavía no tiene una, puede crear una nueva en [www.rhapsody.com/onkyo](http://www.rhapsody.com/onkyo)

Si ya tiene una cuenta Rhapsody, seleccione “Sign in to your account” y pulse ENTER.

Escriba su nombre de usuario (normalmente el correo electrónico) y contraseña en la pantalla de teclado que aparece a continuación o en la configuración web.

#### ■ Utilización de la pantalla de teclado

1. Utilice ▲/▼/◀/▶ y ENTER para introducir su nombre de usuario y su contraseña.
2. Seleccione “OK”.
3. Pulse ENTER. Aparecerá la pantalla “Confirm your entries”.
4. Pulse ENTER.

#### Consejo

- Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (→ [página 1](#)). Se puede iniciar sesión desde la pantalla “Users”.

### 2 Utilice ▲/▼ para seleccionar el menú y luego pulse ENTER.

#### Search:

Puede buscar música por artista, álbum o canción.

#### Music Guide:

Puede reproducir canciones por géneros, artistas principales, álbumes principales o canciones principales, novedades, selección del sitio.

#### Rhapsody Channels:

Escuche las emisoras de radio programadas por los principales redactores de Rhapsody.

#### Playlists:

Reproduzca sus listas personales.

#### My Library:

Marque sus álbumes y canciones preferidas en el catálogo de Rhapsody, usando Mi biblioteca.

#### Account Info:

Confirme los datos de su cuenta.

#### Sign Out:

Salga de su cuenta Rhapsody.

### 3 Utilice ▲/▼ para seleccionar una emisora y luego pulse ENTER o ▶ para iniciar la reproducción.

Se inicia la reproducción y aparece la pantalla de reproducción.

Puede controlar las pistas con los botones del mando a distancia.

Botones activados: ▶, ||, ■, ◀◀, ▶▶, |◀◀, ▶▶|, RANDOM, REPEAT

#### Nota

- En Rhapsody Channels, algunos de los botones no funcionan.

#### ■ Elementos del menú

##### Add track to My Library:

Marca las canciones que se están reproduciendo actualmente.

##### Add album to My Library:

Marca los álbumes que se están reproduciendo actualmente.

##### Add playlist to My Library:

Marca las listas de reproducción que se están reproduciendo actualmente.

##### Add channel to My Channels:

Marca las emisoras de Rhapsody que se están reproduciendo actualmente.

##### Add to My Favorites:

Añade una canción, emisora o lista de reproducción a la lista Mis favoritos.

#### Consejo

- Puede eliminar las canciones, los álbumes y las emisoras de Rhapsody marcados de Mi biblioteca.



## Uso de SiriusXM Internet Radio (solo Norteamérica)

Su receptor de AV Onkyo incluye una prueba gratuita de SiriusXM Internet Radio. La pantalla "Account Info" muestra los días que quedan de la prueba. Una vez que termine el periodo de prueba, si desea seguir escuchando este servicio, deberá contratarlo. Para suscribirse vaya a [www.siriusxm.com/internetradio](http://www.siriusxm.com/internetradio) con su ordenador.

Cuando se suscriba, recibirá un nombre de usuario y una contraseña que deberá introducir en el receptor de AV.

Para poder utilizar SiriusXM Internet Radio, el receptor de AV debe estar conectado a internet. Para usar el mando a distancia, siga este procedimiento:

### 1 Utilice ▲/▼ para seleccionar "Sign In", y luego pulse ENTER.

Si ya tiene una cuenta SIRIUS, puede acceder seleccionando "Sign In". Escriba su nombre de usuario y contraseña en la pantalla de teclado que aparece a continuación o en la configuración web. Si no sabe su nombre de usuario o la contraseña, llame a Sirius XM al número (888) 539-7474 para solicitar asistencia.

#### Consejo

- Si desea utilizar múltiples cuentas de usuario, consulte "Uso de múltiples cuentas" (→ [página 1](#)). Se puede iniciar sesión desde la pantalla "Users".

#### ■ Utilización de la pantalla de teclado

1. Utilice ▲/▼/◀/▶ y ENTER para introducir su nombre de usuario y su contraseña.
2. Seleccione "OK".
3. Pulse ENTER. Aparecerá la pantalla "Confirm your entries".
4. Pulse ENTER.

Aparecerá "Please wait..." y después la pantalla "SiriusXM Internet Radio", que muestra la categoría disponible para la selección.

### 2 Utilice ▲/▼ para seleccionar la categoría y luego pulse ENTER.

Aparece una pantalla con una lista de emisoras de la categoría seleccionada.

### 3 Utilice ▲/▼ para seleccionar la emisora deseada y luego pulse ENTER.

Aparecerá la pantalla de reproducción de la emisora seleccionada y ahora usted podrá escuchar SiriusXM Internet Radio.

Puede controlar las pistas con los botones del mando a distancia.

Botones activados: ■, ■■, I◀◀, ▶▶I

#### ■ Elementos del menú

##### Add to My Favorites:

Añade una emisora a la lista Mis favoritos.



Las suscripciones a SiriusXM Internet Radio se venden por separado y se rigen por las condiciones de Sirius (consulte [www.sirius.com](http://www.sirius.com)). Lea atentamente este acuerdo antes de comprar la suscripción. Sirius, XM y todas las marcas y logotipos relacionados son marcas comerciales de Sirius XM Radio Inc. y sus filiales. Todos los derechos reservados.



## Uso de Last.fm Internet Radio

**Last.fm es un servicio musical que sabe lo que le gusta...**

Su nuevo receptor de AV Onkyo es muy inteligente. Si tiene una cuenta gratuita de Last.fm, hará un seguimiento de todas las canciones que acaba de escuchar. Cuando visite el sitio web de Last.fm, podrá ver listas personales de la música que ha disfrutado, compartirlas con sus amigos y también ver lo que les gusta a ellos.

Con sus miles de biografías, críticas y una infinita variedad de emisoras de radio personalizadas y sin publicidad, Last.fm es una forma excelente de descubrir música. Cree hoy mismo una cuenta gratuita de Last.fm en [www.last.fm/join](http://www.last.fm/join)

Si se suscribe podrá disfrutar de lo mejor de Last.fm Radio sin anuncios en su receptor de AV Onkyo sin necesidad de un ordenador.

### Recommended Radio:

Descubra nuestras interesantes recomendaciones personalizadas que se adaptan a sus gustos en cada momento.

### Artist Radio:

Escoja cualquier artista y podrá escuchar una emisora de radio inspirada exclusivamente en su elección.

### My Library:

Relájese y disfrute de selecciones de toda la música que ha escuchado desde que se registró en Last.fm.

### Tag Radio:

¿Polish funk? ¿Death pop? Piense en un estilo y podrá escucharlo durante horas.

Pruébelo gratis ahora mismo. Cree una cuenta y verá por sí mismo lo que significa tener toda la música del mundo al alcance de sus oídos. Puede consultar los precios actualizados y toda la información que desee en [www.last.fm/subscribe](http://www.last.fm/subscribe)

## 1 Utilice ▲/▼ para seleccionar “Sign in to your account”, y luego pulse ENTER.

Si ya tiene una cuenta de Last.fm, puede acceder a ella para seleccionar “Sign in to your account”. Introduzca su nombre de usuario y contraseña en la siguiente pantalla de teclado.

### ■ Utilización de la pantalla de teclado

1. Utilice ▲/▼/◀/▶ y ENTER para introducir su nombre de usuario y su contraseña.
2. Seleccione “OK”.
3. Pulse ENTER. Aparecerá la pantalla “Confirm your entries”.
4. Pulse ENTER.

Aparecerá “Please wait...” y después la pantalla “Last.fm Internet Radio”.

### Consejo

- Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (→ [página 1](#)). Se puede iniciar sesión desde la pantalla “Users”.

## 2 Utilice ▲/▼ para seleccionar un menú y luego pulse ENTER.

### Search Station:

Puede buscar emisoras por artista, etiquetas o nombre de usuario.

### Top Artists Station:

Puede reproducir canciones de los artistas mejor clasificados.

### Top Tags Station:

Puede reproducir canciones con las etiquetas mejor clasificadas.

### Personal Station:

Puede reproducir pistas de una emisora personalizada (“Your Library”, “Your Neighbourhood” y “Your Recommendations”).

### Profile:

Puede reproducir pistas de “Recently Listened Tracks”, “Library” y “Neighbours”.

### Account Info:

Confirme los datos de su cuenta.

### Sign Out:

Se desconecta de su cuenta.

## 3 Utilice ▲/▼ para seleccionar una emisora y luego pulse ENTER o ▶ para iniciar la reproducción.

Se inicia la reproducción y aparece la pantalla de reproducción.

### ■ Elementos del menú

#### I Love this track:

Se guarda la información sobre la canción en el servidor de Last.fm y aumenta la frecuencia con la que se reproduce.

#### Ban this track:

Se guarda la información sobre la canción en el servidor de Last.fm y se reduce la frecuencia con la que se reproduce.

#### Add to My Favorites:

Añade una emisora a la lista Mis favoritos.

### ■ Uso del control de scrobbling

Utilice ▲/▼ para seleccionar “Enable”, y luego pulse ENTER.

\* Los servicios de radio por Internet suministrados por terceros pueden cancelarse con o sin aviso previo. Es posible que los servicios de radio por Internet no estén disponibles en algunas zonas.



## Uso de Slacker Personal Radio

**1** Si no tiene una cuenta, cree una en el sitio web de Slacker ([www.slacker.com](http://www.slacker.com)) con su ordenador.

Si ya tiene una cuenta de Slacker, seleccione “Sign in to your account” y pulse ENTER.

Aparecerá la pantalla de teclado. Puede introducir información desde el mando a distancia o desde el teclado de la unidad principal.

**2** Si no hay errores en la información que ha introducido, utilice ▲/▼/◀/▶ para seleccionar “OK” y luego pulse ENTER.

Aparecerá una pantalla de confirmación de la información de la cuenta.

**3** Si no tiene una cuenta, seleccione “Access without Sign In” y pulse ENTER para utilizar una versión restringida del servicio.

Tenga en cuenta que el uso estará restringido.

### Consejo

- Si desea utilizar múltiples cuentas de usuario, consulte “Uso de múltiples cuentas” (→ [página 1](#)). Se puede iniciar sesión desde la pantalla “Users”.

**4** Utilice ▲/▼ para seleccionar un menú y luego pulse ENTER.

Para salir, utilice ▲/▼ para seleccionar “Sign out” en esta pantalla y luego pulse ENTER.

**5** Utilice ▲/▼ para seleccionar una emisora y luego pulse ENTER o ► para iniciar la reproducción de la emisora.

Aparecerá la pantalla de reproducción.

**6** Puede controlar las pistas con los botones del mando a distancia.

Botones activados: ►, II, ■, ►►

### ■ Elementos del menú

#### Rate Song as Favorite:

Guarda información en el servidor, haciendo que sea más probable que la canción se vuelva a reproducir.

#### Ban Song:

Guarda información en el servidor, haciendo que sea menos probable que la canción se vuelva a reproducir.

#### Ban Artist:

Guarda información en el servidor, haciendo que sea menos probable que las canciones de este artista se vuelvan a reproducir.

#### Mark Favorite:

Añade la emisora que se está reproduciendo actualmente a los favoritos.

#### Unmark Favorite:

Elimina la emisora que se está reproduciendo actualmente de los favoritos.

#### Add song to Library:

Añade la canción que se está reproduciendo actualmente a su biblioteca.

#### Delete song from Library:

Elimina la canción que se está reproduciendo actualmente de la biblioteca.

#### Add to My Favorites:

Añade una emisora o canción a la lista Mis favoritos.





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## Using Internet Radio

### Common Procedures in Internet Radio Menu

#### Note

- Available services may vary depending on the region.
- Certain network service or contents available through this device may not be accessible in case the service provider terminates its service.

#### 1 Press NET.

A list of the network services appears, and the **NET** indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver.

#### 2 Select the desired service and press ENTER.

The top page of the selected service appears.

### Using Multiple Accounts

The AV receiver supports multiple user accounts, which means you can freely switch between several logins. After registering user accounts, login is performed from the “**Users**” screen.

#### 1 Press MENU while the Users screen is displayed.

The following menu items appear:

##### Add new user:

##### Remove this user:

You can either store a new user account, or delete an existing one.

#### Tip

- Some of the services don't allow the use of multiple user accounts.
- You can store up to 10 user accounts.
- To switch between accounts you must first log out from the current account, and log in again on the “**Users**” screen.

### Using Last.fm Internet Radio ..... 2



## Using Last.fm Internet Radio

### Last.fm is a music service that learns what you love...

Your new Onkyo AV receiver is very clever. If you have a free Last.fm account, it will keep track of all the songs you've just played. When you visit the Last.fm website, you can see personal charts of the music you've enjoyed, share them with friends and see what they like, too.

With thousands of biographies, reviews and an endless choice of personalised, ad-free radio stations, Last.fm is a great way to discover music. Pick up your free Last.fm account today at [www.last.fm/join](http://www.last.fm/join)

UK and Germany only:

Get a subscription and you can enjoy the best of ad-free Last.fm Radio on your Onkyo AV receiver without a computer!

#### Recommended Radio:

Discover smart personalised recommendations that adapt as your tastes change.

#### Artist Radio:

Pick any artist and we'll play you a whole station of music inspired by your choice.

#### My Library:

Sit back and enjoy selections from all the music you've heard since you joined Last.fm.

#### Tag Radio:

Polish funk? Death pop? Think of a style and we'll entertain you with it for hours.

Start your free trial straight away when you create your account and see for yourself what it's like to have the world's music at your fingertips. Latest prices and full information are available at [www.last.fm/subscribe](http://www.last.fm/subscribe)

### 1 Use ▲/▼ to select "Sign in to your account", and then press ENTER.

If you have the existing Last.fm account, you can sign in to your account to select "Sign in to your account". Enter your user name and password in the next keyboard screen.

#### ■ Using the keyboard screen

1. Use ▲/▼/◀/▶ and the **ENTER** to enter your user name and password.
2. Select "OK".
3. Press **ENTER**. The "Confirm your entries" screen appears.
4. Press **ENTER**.

"Please wait..." appears and then "Last.fm Internet Radio" screen appears.

#### Tip

- If you want to use multiple user accounts, see "Using Multiple Accounts" (→ [page 1](#)). Login can be made from the "Users" screen.

### 2 Use ▲/▼ to select menu and then press ENTER.

#### Search Station:

You can search station by Artist, Tag, or User Name.

#### Top Artists Station:

You can play tracks of top-rated artists.

#### Top Tags Station:

You can play tracks of top-rated tags.

#### Personal Station:

You can play tracks from personalized station ("Your Library", "Your Neighbourhood" and "Your Recommendations").

#### Profile:

You can play tracks from "Recently Listened Tracks", "Library" and "Neighbours".

#### Account Info:

Confirm your account information.

#### Sign Out:

It signs out from your account.

### 3 Use ▲/▼ to select a station, and press ENTER or ▶ to start playback.

Playback starts and the playback screen appears.

Enabled buttons: ▶, ■, ▶▶

#### ■ Menu Items

##### I Love this track:

Track information is saved in Last.fm server, and playback frequency increases.

##### Ban this track:

Track information is saved in Last.fm server, and playback frequency reduces.

##### Add to My Favorites:

Adds a station to My Favorites list.

#### ■ Using scrobbling control

Use ▲/▼ to select "Enable", and then press **ENTER**.

- \* Internet radio services provided by a third party may be terminated with or without notice.  
Internet radio services may not be available in some areas.



# Internetradio verwenden

## Allgemeine Verfahren bei den Internetradio-Menüs

### Anmerkung

- Die verfügbaren Dienste sind länderabhängig verschieden.
- Bestimmte Netzwerkdienste oder über dieses Gerät zur Verfügung stehende Inhalte stehen eventuell nicht zur Verfügung, falls der Service-Anbieter seine Dienstleistung beendet.

### 1 Drücken Sie NET.

Es erscheint eine Liste der Netzwerkdienste und die **NET**-Anzeige leuchtet. Wenn sie blinkt, überprüfen Sie ob das Ethernet-Kabel fest im AV-Receiver eingesteckt ist.

### 2 Wählen Sie den gewünschten Service aus und drücken Sie ENTER.

Die oberste Seite des ausgewählten Services erscheint.

### Verwendung mehrerer Konten

Der AV-Receiver unterstützt mehrere Nutzerkonten, was bedeutet, dass Sie frei zwischen mehreren Logins umschalten können. Nach der Anmeldung der Nutzerkonten wird das Login vom „**Users**“ Bildschirm aus vorgenommen.

### 1 Drücken Sie MENU während der Bildschirm des Nutzers angezeigt wird.

Das folgende Menü erscheint:

**Add new user:**

**Remove this user:**

Sie können entweder ein neues Nutzerkonto abspeichern oder ein bestehendes löschen.

### Tipp

- Einige dieser Dienstleistungen lassen keine mehrfachen Nutzerkonten zu.
- Sie können bis zu 10 Nutzerkonten speichern.
- Um zwischen den Konten umzuschalten, müssen Sie sich zuerst aus Ihrem aktuellen Konto ausloggen und sich dann wieder auf dem „**Users**“ Bildschirm einloggen.

## Verwendung von Last.fm Internet Radio ..... 2



## Verwendung von Last.fm Internet Radio

### Last.fm ist ein Musikdienst, der sich Ihre Lieblingsmusik merkt...

Ihr neuer Onkyo AV-Receiver ist äußerst clever. Wenn Sie ein kostenloses Last.fm-Konto eingerichtet haben, werden darin alle kürzlich abgespielten Titel gespeichert. Wenn Sie die Last.fm-Website besuchen, können Sie Ihre persönlichen Charts der von Ihnen abgespielten Musik anzeigen; teilen Sie diese mit Freunden und sehen Sie auch, welche Musik Ihre Freunde mögen.

Mit tausenden von Biografien, Rezensionen und einer schier endlosen Auswahl an persönlich angepassten, werbefreien Radiosendern ist Last.fm eine großartige Gelegenheit, um Musik zu entdecken. Holen Sie sich Ihr kostenloses Last.fm-Konto noch heute unter [www.last.fm/join](http://www.last.fm/join)

Nur für Großbritannien und Deutschland:  
Holen Sie sich ein Abonnement und Sie können auch ohne Computer die besten werbefreien Last.fm-Radiosender auf Ihrem Onkyo AV-Receiver hören!

#### Recommended Radio:

Entdecken Sie smarte, persönlich angepasste Empfehlungen, die sich mit Ihrem Musikgeschmack verändern.

#### Artist Radio:

Wählen Sie einen beliebigen Interpreten und wir spielen für Sie einen ganzen Radiosender mit durch Ihre Wahl inspirierter Musik.

#### My Library:

Lehnen Sie sich zurück und erfreuen Sie sich an einer Auswahl aller Musik, die Sie seit Ihrer Mitgliedschaft bei Last.fm gehört haben.

#### Tag Radio:

Polish Funk? Death Pop? Denken Sie an einen Musikstil und wir unterhalten Sie stundenlang damit.

Starten Sie Ihr kostenloses Probeabo direkt wenn Sie Ihr Konto erstellen und finden Sie selbst heraus wie es ist, jederzeit die Musik der ganzen Welt abrufen zu

können. Die aktuellen Nutzungspreise und umfassende Infos sind unter [www.last.fm/subscribe](http://www.last.fm/subscribe) erhältlich

### 1 Verwenden Sie ▲/▼, um „Sign in to your account“ auszuwählen und dann drücken Sie ENTER.

Wenn Sie über einen bestehenden Last.fm Konto verfügen, können Sie sich anmelden und „Sign in to your account“ wählen. Geben Sie Ihre Benutzernamen und das Kennwort in der folgenden Tastaturanzeige ein.

#### ■ Verwendung der Tastaturanzeige

1. Verwenden Sie ▲/▼/◀/▶ und den ENTER, um Ihren Nutzernamen und Passwort einzugeben.
2. Wählen Sie „OK“.
3. Drücken Sie ENTER. Die Anzeige „Confirm your entries“ erscheint.
4. Drücken Sie ENTER.

„Please wait...“ wird angezeigt und danach erscheint die „Last.fm Internet Radio“-Anzeige.

#### Tipp

- Falls Sie mehrere Nutzerkonten verwenden möchten, schlagen Sie bitte unter „Verwendung mehrerer Konten“ nach (→ [Seite 1](#)). Das Login kann vom „Users“-Bildschirm aus erfolgen.

### 2 Verwenden Sie ▲/▼, um das Menü auszuwählen und dann drücken Sie ENTER.

#### Search Station:

Sie können einen Sender anhand Interpreten, Tags oder Benutzernamen suchen.

#### Top Artists Station:

Sie können Titel der am besten bewerteten Interpreten wiedergeben.

#### Top Tags Station:

Sie können Titel der am besten bewerteten Tags wiedergeben.

#### Personal Station:

Sie können Titel aus einem persönlich angepassten Sender wiedergeben („Your Library“, „Your Neighbourhood“ und „Your Recommendations“).

#### Profile:

Sie können Titel aus „Recently Listened Tracks“, „Library“ und „Neighbours“ wiedergeben.

#### Account Info:

Bestätigen Sie Ihre Kontoinformation.

#### Sign Out:

Zur Abmeldung aus Ihrem Konto.

### 3 Verwenden Sie ▲/▼, um einen Sender auszuwählen und dann drücken Sie ENTER oder ►, um die Wiedergabe zu starten.

Die Wiedergabe wird gestartet und die Wiedergabeanzeige erscheint.

Aktiviere Tasten: ►, ■, ►►

#### ■ Menüsymbole

#### I Love this track:

Titel-Informationen werden auf dem Last.fm-Server gespeichert und die Häufigkeit der Wiedergabe wird erhöht.

#### Ban this track:

Titel-Informationen werden auf dem Last.fm-Server gespeichert und die Häufigkeit der Wiedergabe wird verringert.

#### Add to My Favorites:

Fügt einen Sender zu meiner My Favorites Liste hinzu.

#### ■ Scrobbling-Steuerung verwenden

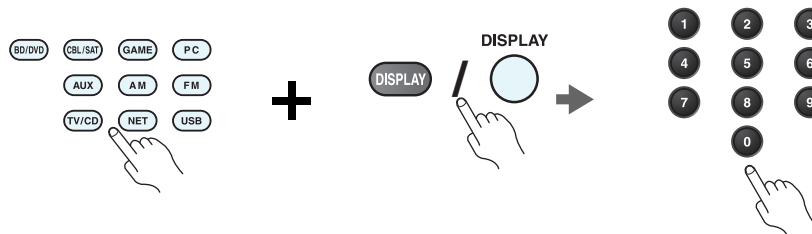
Verwenden Sie ▲/▼, um „Enable“ auszuwählen und dann drücken Sie ENTER.

\* Von Drittparteien zur Verfügung gestellte Internetradio-Dienste können unter Umständen ohne Vorankündigung eingestellt werden.

In bestimmten Gebieten sind Internetradio-Dienste eventuell nicht verfügbar.



# Remote Control Codes



## 1 While holding down the REMOTE MODE button to which you want to assign a code, press and hold down [DISPLAY] (about 3 seconds).

The REMOTE MODE button/Remote indicator lights.

On Integra products, button names are capitalized. For example, “Remote Mode” button and “Display” button.

### Notes:

- Remote control codes cannot be entered for [RECEIVER] and the multi zone button.
- Only TV remote control codes can be entered for [TV].
- Except for [RECEIVER], [TV], and the multi zone button, remote control codes from any category can be assigned for the REMOTE MODE buttons. However, these buttons also work as input selector buttons, so choose a REMOTE MODE button that corresponds with the input to which you connect your component. For example, if you connect your CD player to the CD input, choose [TV/CD] when entering its remote control code.

## 2 Within 30 seconds, use the number buttons to enter the 5-digit remote control code.

The REMOTE MODE button/Remote indicator flashes twice.

If the remote control code is not entered successfully, the REMOTE MODE button/Remote indicator will flash once slowly.

### Notes:

- The flashing element of the remote controller will differ according to your AV receiver’s model.
- The remote controller is preconfigured with remote controller presets of different components. By entering a code from the Remote Control Code list, you can activate the relevant preset for that component.
- When there are multiple codes related to one manufacturer, try and enter them one-by-one until it matches your component.
- Depending on the model and year of your component, compatibility is not guaranteed.
- With some models, the remote controller may not work or its compatibility may be limited to part of the component’s functionality.
- Besides, it is not possible to add new codes to the existing remote controller presets.
- Though the provided remote control codes are correct at the time of printing, they are subject to change by the manufacturer.



## Codes de télécommande

### 1 Tout en maintenant enfoncé le bouton REMOTE MODE auquel vous souhaitez associer un code, pressez et maintenez enfoncé le bouton [DISPLAY] (pendant environ 3 secondes).

Le bouton REMOTE MODE/le témoin Remote s'allume.

Les noms de boutons sont en minuscules sur les produits Integra. Par exemple, le bouton « Remote Mode » et le bouton « Display ».

#### Remarques :

- Les codes de télécommande ne peuvent pas être entrés pour [RECEIVER] et le bouton multi zone.
- Seul le code de télécommande de téléviseurs peuvent être entrés pour [TV].
- À l'exception de [RECEIVER], [TV] et du bouton multi zone, vous pouvez affecter des codes de télécommande de n'importe quelle catégorie pour les boutons REMOTE MODE. Cependant, ces boutons font également office de bouton de sélecteur d'entrée : par conséquent, choisissez un bouton REMOTE MODE correspondant à l'entrée à laquelle vous souhaitez raccorder votre appareil. Par exemple, si vous raccordez votre lecteur CD à l'entrée CD, choisissez [TV/CD] lorsque vous saisissez le code de télécommande.

### 2 Vous disposez de 30 secondes pour saisir le code de télécommande à cinq chiffres à l'aide des boutons numérotés.

Le bouton REMOTE MODE/le témoin Remote clignote deux fois.

Si le code de télécommande n'a pas été saisi correctement le bouton REMOTE MODE/l'indicateur Remote ne clignote qu'une seule fois.

#### Remarques :

- L'élément clignotant de la télécommande différera selon le modèle de votre ampli-tuner AV.
- La télécommande est préconfigurée avec des préréglages de télécommande de différents appareils. En entrant un code de la liste des codes de télécommandes, vous pouvez activer le préréglage approprié pour cet appareil.
- Quand il y a de multiples codes liés à un fabricant, essayez-les et entrez-les un par un jusqu'à ce que cela corresponde à votre appareil.
- Selon le modèle et l'année de votre appareil, la compatibilité n'est pas garantie.
- Avec certains modèles, la télécommande peut ne pas fonctionner ou sa compatibilité peut être limitée à une partie de la fonctionnalité de l'appareil.
- En outre, il n'est pas possible d'ajouter de nouveaux codes aux préréglages de télécommande existants.
- Bien que les codes de télécommande fournis soient corrects au moment de l'impression de la liste, ils sont susceptibles d'être modifiés par le fabricant.

## Códigos de control remoto

### 1 Manteniendo pulsado el botón REMOTE MODE para el cual desea introducir un código, pulse y mantenga presionado el botón [DISPLAY] (aproximadamente 3 segundos).

Se iluminará el botón REMOTE MODE/indicador Remote.

En los productos Integra, los nombres de los botones aparecen con mayúsculas. Por ejemplo, el botón "Remote Mode" y el botón "Display".

#### Notas:

- No podrán introducirse códigos de mando a distancia para [RECEIVER] y el botón multizona.
- Únicamente podrán introducirse códigos de mando a distancia de televisor para el botón [TV].
- Con la excepción de [RECEIVER], [TV] y el botón multizona, se pueden asignar códigos de mando a distancia de cualquier categoría a los botones de REMOTE MODE. No obstante, estos botones también pueden funcionar como botones de selector de entrada; por tanto, seleccione un botón REMOTE MODE que se corresponda con la entrada a la cual está conectado el componente. Por ejemplo, si conecta un reproductor de CD a la entrada de CD, seleccione [TV/CD] cuando introduzca su código de mando a distancia.

### 2 Antes de que transcurran 30 segundos, utilice los botones numéricos para introducir el código de mando a distancia de 5 dígitos.

El botón REMOTE MODE/indicador Remote parpadeará dos veces.

Si el código de mando a distancia no se introduce correctamente, el botón REMOTE MODE/indicador Remote parpadeará una vez despacio.

#### Notas:

- El parpadeo del mando distancia será distinto según el modelo de receptor de AV.
- El mando a distancia está preconfigurado con los ajustes predeterminados de los distintos componentes. Al introducir un código de la lista de códigos del mando a distancia se puede activar el ajuste predeterminado de ese componente.
- Cuando hay múltiples códigos relacionados con un fabricante, pruebe a introducirlos uno a uno hasta que coincida con su componente.
- Dependiendo del modelo y el año de su componente, la compatibilidad no está garantizada.
- Con algunos modelos, es posible que el mando a distancia no funcione o que su compatibilidad esté limitada a una parte de las funciones del componente.
- Además, no es posible añadir nuevos códigos a los ajustes predeterminados existentes del mando a distancia.
- Los códigos de mando a distancia suministrados son correctos en el momento de la impresión, pero el fabricante puede realizar cambios.





## Codici del telecomando

### 1 Tenendo premuto il tasto REMOTE MODE al quale si desidera assegnare il codice, premere e tenere premuto [DISPLAY] (per circa 3 secondi).

Il tasto REMOTE MODE/l'indicatore Remote si accende.

Sui prodotti Integra, i nomi dei tasti sono scritti con l'iniziale maiuscola. Ad esempio, tasto "Remote Mode" e tasto "Display".

#### Note:

- I codici di controllo del telecomando non possono essere inseriti per [RECEIVER] e i tasti multi zona.
- Per [TV] è possibile immettere solo codici telecomando del televisore.
- Tranne che per [RECEIVER], [TV], e per il tasto multi zona, è possibile assegnare codici di controllo di ogni categoria per i tasti REMOTE MODE. Tuttavia, tali tasti fungono anche da tasti del selettore d'ingresso, quindi scegliere un tasto REMOTE MODE che corrisponda all'ingresso al quale viene collegato il dispositivo. Per esempio, se si collega il lettore CD all'ingresso CD, scegliere il [TV/CD] quando si immette il relativo codice telecomando.

### 2 Entro 30 secondi utilizzare i tasti numerici per inserire il codice telecomando a 5 cifre.

Il tasto REMOTE MODE/l'indicatore Remote lampeggia due volte.

Se il codice telecomando non viene inserito correttamente, il tasto REMOTE MODE/l'indicatore Remote lampeggia lentamente una volta.

#### Note:

- L'elemento lampeggiante del telecomando varia a seconda del modello del ricevitore AV.
- Il telecomando è preconfigurato con preselezioni per diversi apparecchi. Inserendo un codice dall'elenco dei codici telecomando, è possibile attivare la relativa preselezione per tale apparecchio.
- Se sono presenti più codici relativi allo stesso produttore, provare a inserirli uno a uno finché non si arrivi al codice corrispondente dell'apparecchio.
- A seconda del modello e dell'anno dell'apparecchio, la compatibilità non è garantita.
- Con alcuni modelli, il telecomando può non funzionare o la sua compatibilità può essere limitata a una parte della funzionalità dell'apparecchio.
- Inoltre, non è possibile aggiungere nuovi codici alle preselezioni esistenti del telecomando.
- I codici telecomando specificati sono validi alla data della stampa del presente documento, ma sono soggetti a variazioni da parte del produttore.

## Fernbedienungscodes

### 1 Halten Sie die REMOTE MODE-Taste gedrückt, für die Sie den Code eingeben möchten, und drücken Sie (ca. 3 Sekunden lang) die [DISPLAY]-Taste.

Die REMOTE MODE-Taste/Remote-Anzeige leuchtet.

Bei den Integra-Produkten werden die Namen der Tasten groß geschrieben. Zum Beispiel „Remote Mode“ (Fernbedienungsmodus)-Taste und „Display“-Taste.

#### Hinweise:

- Der Fernbedienungscodes kann nicht [RECEIVER] und der Multi-Zonen-Taste zugeordnet werden.
- Der Taste [TV] können nur Fernbedienungscodes für einen Fernseher zugeordnet werden.
- Abgesehen von [RECEIVER], [TV] und der Multi-Zone-Taste, können die Fernbedienungscodes jeder Kategorie den REMOTE MODE-Tasten zugewiesen werden. Allerdings dienen diese Tasten auch als Quellenwahltasten. Wählen Sie also nach Möglichkeit eine REMOTE MODE-Taste, die dem Eingang zugeordnet ist, an den Sie die betreffende Quelle angeschlossen haben. Wenn Sie z.B. einen CD-Player an den CD-Eingang anschließen, sollten Sie [TV/CD] wenn Sie den Fernbedienungscodes eingeben.

### 2 Geben Sie mit den Zifferntasten innerhalb von 30 Sekunden den 5-stelligen Herstellercode ein.

Die REMOTE MODE-Taste/Remote-Anzeige blinkt zwei Mal.

Wenn der Fernbedienungscodes nicht ordnungsgemäß eingegeben wurde, blinkt die REMOTE MODE-Taste/Remote-Anzeige einmal langsam.

#### Hinweise:

- Das blinkende Element auf der Fernbedienung unterscheidet sich je nach AV-Receiver-Modell.
- Die Fernbedienung ist mit den Voreinstellungen der Fernbedienung der verschiedenen Komponenten vorkonfiguriert. Indem ein Code aus der Liste der Fernbedienungscodes eingegeben wird, können Sie die entsprechende Voreinstellung für die Komponente aktivieren.
- Wenn es mehrere Codes gibt, die sich auf einen Hersteller beziehen, versuchen Sie sie einzeln einzugeben, bis einer mit Ihrer Komponente übereinstimmt.
- Dies hängt vom Modell und Herstellungsjahr Ihrer Komponente ab und die Kompatibilität ist nicht garantiert.
- Es kann sein, dass bei einigen Modellen die Fernbedienung nicht funktioniert oder ihre Kompatibilität sich auf nur auf Teile der Funktionalität der Komponente beschränkt.
- Abgesehen davon ist es nicht möglich, den bestehenden Voreinstellungen der Fernbedienung neue Codes hinzuzufügen.
- Obwohl die angegebenen Fernbedienungscodes dem Stand bei Drucklegung entsprechen, sind Änderungen durch den Hersteller vorbehalten.



## Afstandsbedieningscodes

### 1 Houd terwijl u de REMOTE MODE toets ingedrukt houdt waarvoor u een code wilt toewijzen de [DISPLAY] toets ingedrukt (ongeveer 3 seconden).

De toets REMOTE MODE (afstandsbedieningsmodus) / Het indicatielampje afstandsbediening gaat branden.

Op producten van Integra staan de namen van de toetsen in hoofdletters. Bijvoorbeeld, de toetsen "Remote Mode" en "Display".

#### Opmerkingen:

- Er kunnen geen afstandsbedieningscodes worden ingevoerd voor [RECEIVER] en de multi zone-toets.
- Alleen TV afstandsbedieningscodes kunnen worden ingevoerd voor [TV].
- Behalve voor [RECEIVER], [TV] en de multi zone-toets, kunnen afstandsbedieningscodes vanuit elke categorie worden toegewezen aan de REMOTE MODE toetsen. Deze toetsen werken overigens ook als ingangselectortoetsen, kies dus een REMOTE MODE toets die overeenkomt met de ingang waarop u uw component wilt aansluiten. Kies indien u bijvoorbeeld uw CD-speler aansluit op de CD-ingang de [TV/CD] toets bij het invoeren van de afstandsbedieningscode.

### 2 Gebruik binnen 30 seconden de cijfertoetsen om de 5-cijferige afstandsbedieningscode in te voeren.

De toets REMOTE MODE (afstandsbedieningsmodus) / Het indicatielampje afstandsbediening knippert tweemaal.

Indien de afstandsbedieningscode niet met succes wordt ingevoerd, zal de toets REMOTE MODE/Remote-indicator eenmaal traag knipperen.

#### Opmerkingen:

- Het knippergedeelte van de afstandsbediening zal verschillen ten opzichte van het model van uw AV-receiver.
- De afstandsbediening is voorgeprogrammeerd met voorkeuzetoetsen van verschillende componenten. Door het invullen van een code uit de afstandsbediening codelijst kunt u de voorkeuzetoets voor die component activeren.
- Wanneer er meerdere codes gerelateerd zijn aan één fabrikant, probeer deze dan een voor een totdat de juiste code overeenkomt met uw component.
- Afhankelijk van het model en het bouwjaar van uw component is de compatibiliteit niet gegarandeerd.
- Bij sommige modellen werkt de afstandsbediening mogelijk niet of is de compatibiliteit ervan beperkt tot een deel van de functionaliteit van de component.
- Daarnaast is het niet mogelijk om nieuwe codes aan de bestaande voorkeuzetoetsen van de afstandsbediening toe te voegen.
- Hoewel de gegeven afstandsbedieningscodes correct zijn op het moment van afdrukken, kunnen deze door de fabrikant gewijzigd worden.

## Fjærrstyrningskoder

### 1 Håll ned knappen för det REMOTE MODE som du vill tilldela en kod samtidigt som du trycker och håller ned [DISPLAY] (i cirka 3 sekunder).

REMOTE MODE-knapp/Fjärrindikatorlampa.

På Integra-produkter, är knappnamnens begynnelsebokstav en versal. Till exempel, "Fjärrläge"-knapp och "Display"-knapp.

#### Anmärkningar:

- Fjärrkontrollkoder kan inte anges för knapparna [RECEIVER] och flerzonsknappen.
- Endast fjärrkontrollkoder för tv kan anges för [TV].
- Förutom [RECEIVER], [TV] och flerzonsknappen, kan fjärrkontrollkoder för vilken som helst kategori tilldelas för knapparna REMOTE MODE. Dessa knappar fungerar dock även som ingångväljarknappar, så använd en knapp för REMOTE MODE som motsvarar ingången som du ansluter utrustningen till. Till exempel, om du ansluter din CD-spelare till CD-ingången ska du välja [TV/CD] när du anger dess fjärrkontrollkod.

### 2 Använd sifferknapparna för att ange den femsiffriga koden inom 30 sekunder.

REMOTE MODE-knapp/Fjärrindikatorlampa blinkar två gånger.

Om fjärrkontrollkoden inte ställdes in, blinkar REMOTE MODE-knappen/fjärrindikatorn långsamt en gång.

#### Anmärkningar:

- Det blinkande elementet på fjärrkontrollen skiljer sig åt beroende på din modell av AV-receiver.
- Fjärrkontrollen har förkonfigurerats med förvalda kanaler på fjärrkontrollen för olika komponenter. Genom att ange en kod från fjärrkontrollkodlistan, kan du aktivera relevanta förvalda kanaler för den utrustningen.
- När det finns flera olika koder för en tillverkare ska du försöka att ange dem en och en tills de stämmer överens med din utrustning.
- Beroende på utrustningens modell och årgång, går det inte att garantera kompatibilitet.
- På vissa modeller kan det hända att fjärrkontrollen inte fungerar eller så kan dess kompatibilitet vara begränsad till en del av utrustningens funktion.
- Dessutom går det inte att lägga till nya koder till fjärrkontrollens existerande förvalda kanaler.
- Även om erhållna fjärrkontrollkoder är korrekta vid tryckningen, kan de ändras av tillverkaren.



## 遙控代碼

**1** 在按住想指定編碼的 REMOTE MODE（遙控模式）按鈕時，同時按住 [DISPLAY]（顯示）（約 3 秒）。

REMOTE MODE（遙控模式）按鈕 / 遙控指示燈亮起。

在 Integra 系列產品上，按鈕名稱為大寫。例如，「Remote Mode」（遙控模式）按鈕和「Display」（顯示）按鈕。

注意：

- [RECEIER]（接收機）和多區域按鈕不能輸入遙控編碼。
- 您只能為 [TV]（電視）輸入電視遙控編碼。
- 除 [RECEIVER]（接收機）、[TV]（電視）和多區域按鈕外，您可針對 REMOTE MODE（遙控模式）按鈕指定任何類別的遙控編碼。但是，這些按鈕仍可用作為輸入選擇器按鈕，因此，請選擇與您設備所連接輸入接口對應的 REMOTE MODE 按鈕。例如，如果要將 CD 播放機連接到 CD 輸入源上，則需在輸入遙控編碼時選擇 [TV/CD]。

**2** 在 30 秒內，使用數字按鈕輸入 5 位數的遙控編碼。

REMOTE MODE（遙控模式）按鈕 / 遙控指示燈閃爍兩次。

如果無法成功輸入遙控編碼，REMOTE MODE（遙控模式）按鈕 / 遙控指示燈會慢慢地閃爍一次。

注意：

- 視您的 AV 接收機型號而定，遙控器的閃爍元件會有不同。
- 遙控器已預先設定有不同設備的遙控器預設值。透過輸入遙控編碼清單中的編碼，您可啟用該設備的相關預設值。
- 當有多個編碼與單一製造商相關時，請嘗試一個接著一個輸入，直到與您的設備對應為止。
- 視設備的型號和年份而定，並不保證與本公司產品相容。
- 在某些型號上，遙控器可能無法作用，或是其相容性限於部份設備功能。
- 除此之外，您無法新增編碼至現有的遙控器預設值。
- 雖然所提供之遙控編碼在本文件列印時為正確，製造商仍可能會對其作出修改。

## 遙控代碼

**1** 按住想指定編碼的 REMOTE MODE（遙控模式）按鈕的同時，按住 [DISPLAY]（顯示）]（大約 3 秒鐘）。

REMOTE MODE（遙控模式）按鈕 / 遙控指示燈亮起。

Integra 產品上的按鈕名稱單詞首字母大写。例如，“Remote Mode（遙控模式）”按鈕和“Display（顯示）”按鈕。

注意：

- [RECEIVER（接收機）] 和多區域按鈕不能輸入遙控編碼。
- 只能為 [TV（電視）] 輸入電視遙控編碼。
- 除 [RECEIVER（接收機）]、[TV（電視）] 和多區域按鈕外，不能為 REMOTE MODE（遙控模式）按鈕指定任何類別的遙控編碼。但是，這些按鈕仍可用作為輸入選擇器按鈕，因此，選擇與設備所要連接的輸入端對應的 REMOTE MODE（遙控模式）按鈕。例如，如果要將 CD 播放機連接到 CD 輸入端，應在輸入遙控編碼時選擇 [TV/CD（電視 /CD）]。

**2** 在 30 秒內，使用數字按鈕輸入 5 位數的遙控編碼。

REMOTE MODE（遙控模式）按鈕 / 遙控指示燈閃爍兩次。

如果不能順利輸入遙控編碼，REMOTE MODE（遙控模式）按鈕 / 遙控指示燈會緩慢閃爍一次。

注意：

- 根據 AV 接收機產品類型的不同，遙控器閃爍元素將會不同。
- 遙控器採用不同設備的遙控器預設進行預配置。通過從遙控器編碼列表輸入編碼，便可激活相應設備的相關預設。
- 單個製造商關聯多個編碼時，請嘗試逐個輸入，直至符合當前設備。
- 根據設備的產品類型和年份的不同，無法保證相容性。
- 對於某些產品類型，遙控器可能無法工作或其相容性可能受到部分設備功能性的限制。
- 此外，可能無法將新的編碼追加到現有的遙控器預設。
- 儘管付印時所提供的遙控編碼是正確的，但製造商會隨時更改。



Dedicated Onkyo Receiver	
Default	62503
Zone 2	62506
Zone 3	62507

Cable Set Top Box	
ADB	02254, 02769
Aon	02769
Arris	02187
AT&T	00858
Bright House	01376, 01877
BT Vision	02294
Cable & Wireless	01068
Cable One	01376, 01877
Cablecom	01582
Cablevision	01376, 01877
Charter	01376, 01877, 02187
Cisco	01877, 00858, 01982, 02345, 02378
Com Hem	00817, 00660, 01666, 02015, 02447
Comcast	01376, 01877, 01982, 02187
Cox	01376, 01877
Daeryung	01877
Digeo	02187
DX Antenna	01500
France Telecom	00817
Freebox	01482
Fujitsu	01497
Humax	00660, 02142, 02447, 03051, 03053
Insight	01376, 01877
J:COM	03051, 03053
Knology	01877
Kreatel	01385
Macab	00817
Mediacom	01376, 01877

Cable Set Top Box	
mio TV	02802
Motorola	01376, 00858, 01562, 01982, 01998, 02378
Moxi	02187
NEC	01496
Neuf TV	03107
Noos	00817
NTL	01068, 01060
Numericable	02767
Ono	01068, 01562
Optus	01060
Orange	00817
Pace	01376, 01877, 01068, 01060, 01982
Panasonic	01488, 01982
Philips	00817, 01582, 02294, 02767
Pioneer	01877, 01500
RCN	01376
Rogers	01877
Sagem	00817
Samsung	01877, 01060, 01666, 02015, 02774
Scientific Atlanta	01877, 00858, 01982, 02345
SFR	03107
Shaw	01376
SingTel	01998, 02802
Sony	01460
Stofa	02015
Suddenlink	01376, 01877
Sumitomo	01500
Telewest	01068
TeliaSonera	01385
Telus	02345
Thomson	01582, 01982, 02769
Time Warner	01376, 01877, 02187

Cable Set Top Box	
Toshiba	01509
UPC	01582
Verizon	02378
Videotron	01877
Virgin Media	01068, 01060
Visiopass	00817
VTR	01376
WideOpenWest	01877
Ziggo	00660, 01666, 02015, 02142, 02447, 02774

Cable/PVR Combination	
Arris	02187
Bright House	01376, 01877
Cable One	01376, 01877
Cablevision	01376, 01877
Charter	01376, 01877, 02187
Cisco	01877, 01982
Comcast	01376, 01877, 01982, 02187
Cox	01376, 01877
Digeo	02187
Freebox	01482
Humax	02142, 03051, 03053
Insight	01376, 01877
J:COM	03051, 03053
Knology	01877
Mediacom	01376, 01877
Motorola	01376
Moxi	02187
Numericable	02767
Pace	01877
Panasonic	01982
Philips	01582, 02767
Pioneer	01877
Rogers	01877

Cable/PVR Combination	
Samsung	01877
Scientific Atlanta	01877, 01982
Shaw	01376
Suddenlink	01376, 01877
Thomson	01582
Time Warner	01376, 01877, 02187
UPC	01582
Videotron	01877
VTR	01376
WideOpenWest	01877
Ziggo	02142

IPTV	
ADB	02254, 02769
Aon	02769
AT&T	00858
BT Vision	02294
Canal+	02657
Cisco	00858, 02345, 02378
Kreatel	01385
mio TV	02802
Motorola	01376, 00858, 01998, 02378
Neuf TV	03107
Pace	02657
Scientific Atlanta	00858, 02345
SFR	03107
SingTel	01998, 02802
TeliaSonera	01385
Telus	02345
Thomson	02769
Verizon	02378

IPTV/PVR Combination	
ADB	02769
Aon	02769



IPTV/PVR Combination	
AT&T	00858
BT Vision	02294
Cisco	00858, 02345, 02378
Kreatel	01385
Motorola	00858, 02378
Neuf TV	03107
Philips	02294
Scientific Atlanta	00858
SFR	03107
Verizon	02378

CD	
Advantage	70032
AH!	70157
Aiwa	70157
Arcam	70157
Atoll Electronique	70157
Audio Research	70157
Audiolab	70157
Audiomeca	70157
Audioton	70157
AVI	70157
Balanced Audio Technology	70157
Cairn	70157
California Audio Labs	70029, 70303
Cambridge	70157
Cambridge Audio	70157
Carver	70157
CCE	70157
Cyrus	70157
Denon	70626, 70766
DKK	70000
DMX Electronics	70157
Dynaco	70157
Genexxa	70000, 70032

CD	
Goldmund	70157
Grundig	70157
Harman/Kardon	70157
Hitachi	70032
Integra	71817, 70101
JVC	70072
Kenwood	70626, 70157, 70036
Krell	70157
Linn	70157
Loewe	70157
Magnavox	70157
Marantz	70626, 70029, 70157
Matsui	70157
MCS	70029
Memorex	70032
Meridian	70157
Micromega	70157
Miro	70000
Mission	70157
Myryad	70157
NAD	70000, 70721
Naim	70157
NSM	70157
Onkyo	71817
Optimus	70000, 70032
Panasonic	70029, 70303
Philips	70626, 70157
Pioneer	70032, 70101
Polk Audio	70157
Primare	70157
Proton	70157
QED	70157
Quad	70157
Quasar	70029
Radiola	70157
RCA	70032

CD	
Restek	70157
Revox	70157
Rotel	70157
SAE	70157
Sansui	70157
SAST	70157
Siemens	70157
Silsonic	70036
Simaudio	70157
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